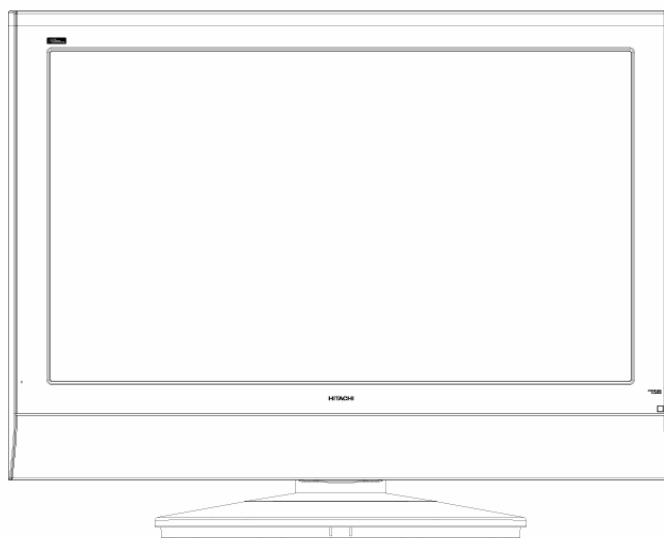


HITACHI

No. **TA 003**

26HDL52



Caution

Be sure to read this manual before servicing. To ensure safety from fire, electric shock, injury, harmful radiation and materials, various measures are provided in this LVD TV.

Be sure to read cautionary items described in the manual before servicing.

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that described in the operating instructions unless you are qualified to do so.

Service Warning

1. Since the Panel Module and the front Filter are made of glass, handling the broken Module and Filter carefully and with caution in order not to receive injury.
2. Replacement work should be started after the Panel Module and the AC/DC Power supply have become sufficiently cool.
3. Special care should be taken when working near the display area in order not to damage its surface.
4. The Panel Module should not be touched with bare hands in order to protect its surface from blemishes and damage.
5. It is recommended that you use clean soft gloves during the replacement work in order to protect not only the display area of the Panel Module but also yourself.

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3. Component Names-----	5	10. Circuit Diagram-----	29
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LCD Television

CAUTION FOR SAFETY

Please read this page before repair the LCD TV.

The following safety precautions are designed to help you stay safe and prevent accidents during the repair work.

- Please take note of these cautionary flags.

	Warning	This means " Potential to sustain injury or even death. "
	Caution	This means " Potential to sustain breakage or irreparable damage. "

- Also note these cautionary icons

	This means " CAUTION "
	This means " POTENTIAL ELECTRIC SHOCK "

	This means " MUST "
	This means " DO NOT "

 WARNING	
■ Follow instructions. The cabinet, chassis, and labels are parts that require attention. You must follow the caution notes and safety instructions presented throughout this User Manual to prevent damage to them or injury to yourself. 	■ Must use same types of wires and components. The LCD TV uses special tubes and tapes made from insulated materials. Moreover, some materials are kept from making contact with the PWB for the sake of safety. Internal leads are kept from hot parts or high voltage parts by means of clamps or other measures. As such, you must restore these parts to their original conditions in order to prevent electric shock or fire. 
■ Prevent electric shock. Exercise caution while working on the device as the LCD TV contains high voltage parts and power supply. It is possible to sustain severe injury or death if you accidentally touch the wrong parts. You must disconnect the power supply while servicing, reassembling, or change parts. If you touch a live connection it is possible to sustain severe injury or death. 	■ Perform safety check when done. Every part (such as removed screws, components, and wiring) must be restored to their prior conditions after servicing. Be sure to check everything that was repaired for damage or mistakes. Also measure the insulated impedance with a meg-ohm meter to confirm that the impedance value is more than 4M ohm. If the impedance value is less than 4M ohm, then electric shock or fire may result. 
■ Use recommended components. Use only the recommended components or components that are structurally identical to the originals. This is to ensure safety and reliability. Pay special attention to parts in the parts list and circuit diagrams marked with . If you use non-recommended components, then electric shock or fire may result. 	

PRECAUTIONS

- **Cleaning the LCD TV's LCD screen panel**

Before cleaning the LCD TV, turn it off and disconnect the power plug from the power outlet. To prevent scratching or damaging of the LCD screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a second soft cloth. If it is not enough, then use a cloth with mild detergent. Do not use harsh or abrasive cleaners.

- **Cleaning the LCD TV's cabinet**

Use a soft cloth to clean the LCD TV's cabinet and control panel. When excessively soiled, dilute a neutral detergent in water, wet and wring out the soft cloth in it, gently clean the cabinet, and then wipe it down with a dry soft cloth.

Never use acid/alkaline detergents, alcoholic detergents, abrasive cleaners, powder soaps, OA cleaners, car wax, glass cleaners, and so on. They will cause discoloration, scratches or cracks.

1. Features

- **Enhanced definition LCD display panel**

The 26-inch color LCD display panel, with a resolution of 1366 (H) x 768(V) pixels, creates a widescreen picture. This panel features a thin form factor and can be hung on a wall with an optional wall mounting kit.

- **High Performance Digital Processor**

This panel displays a wide range of personal computer signals from 640 x 480, 800 x 600 SVGA to 1280 x 768 WXGA.(RGB Analog input).

- **Easy-to-use remote control and on-screen display system**

The included remote control operates all LCD TV functions. Furthermore, the on-screen display system shows the status of the control settings in an easy-to-view fashion.

- **Power saving system**

When connected to a VESA DPMS-compliant PC, the LCD TV cuts its power consumption while idle.

2. Specifications

Panel	Display dimensions	Approx. 26.005 inches (604 (H) x 323 (V) mm, diagonal 600.53mm)
	Resolution	1366 (H) x 768 (V) pixels
Net dimensions		661.9 (W) x 522.5 (H) x 266.9(D) mm (With Base)
Net weight		18 kg (With Base)
Ambient conditions	Temperatur	Operating: 5°C to 35°C, Storage: -15°C to 60°C
	Relative umidity	Operating: 20% to 80%, Storage: 20% to 90% (non-condensing)
Power supply		AC120V @ 60Hz
Power consumption/at standby		<190W / <1W
Audio output		Build in 10W + 10W (4 Ω)
(RGB input)		
Analog RGB signals	Input terminals	RGB1-VGA audio input terminal (3.5mm Stereo Mini Jack) RGB1-VGA analog RGB input terminal (D-sub 15-pin)
	Video signals	0.7 V
	Sync signals	H/V separate, TTL level [2kΩ] H/V composite, TTL level [2kΩ] Sync on green, 0.3 Vp-p [75Ω]
Digital RGB signals	Input terminals	RGB1-VGA audio input terminal (3.5mm Stereo Mini Jack) DVI connector
	Input terminals	RGB1-VGA audio input terminal (3.5mm Stereo Mini Jack) Ingle pixel 24 bit support up to 110 MHz (DVI-D)
	Input impedance	75Ω
Recommended signal		1024 x 768 at 60Hz
(Video input)		
Input signals	Input terminals	AV1 : Component input (Y-P _B P _R /Y-CbCr) (RCA) AV1 : L/R audio input terminal(RCA)AV1 : L/R audio input terminal(RCA) AV2 : Component input (Y- P _B P _R /Y-CbCr) (RCA) AV2 : L/R audio input terminal(RCA)AV1 : L/R audio input terminal(RCA) AV3 : Composite video input terminal(RCA) AV3 : S video input teminal AV3 : L/R audio input terminal(RCA) AV4 : Composite video input terminal(RCA) AV4 : S video input teminal AV4 : L/R audio input terminal(RCA)
	Video signals	AV1 : NTSC-M AV2 : NTSC-M AV3 : NTSC-M AV4 : NTSC-M
Video output Signal		OUTPUT(LCD TV): composite video output terminal (RCA)-----for NTSC or DTV S-Video output terminal (RCA)-----for DTV OUTPUT(LCD TV): L/R audio LCD TV- output terminal (RCA)---for both NTSC and DTV
Recommended signal		1024 x 768 at 60Hz
(TV RF input)		
Input signals	Input terminals	1. Analog RF input terminal (NTSC) 2. Digital RF input terminal (DTV)

- It takes at least 30 minutes to attain the maximum picture quality.

Applicable video signals for each input terminal

Signal Type Terminal	RCA			D-sub	DVI	Remarks
	Composite	S-video	component	RGB	RGB	
AV1			○			480i/480p/1080i/720p inputs (NTSC).
AV2			○			480i/480p/1080i/720p inputs (NTSC).
AV3	○	○				
AV4	○	○				
RGB				○		
DVI					○	

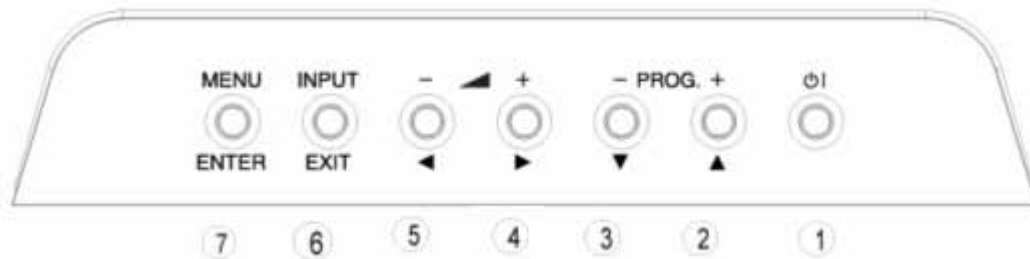
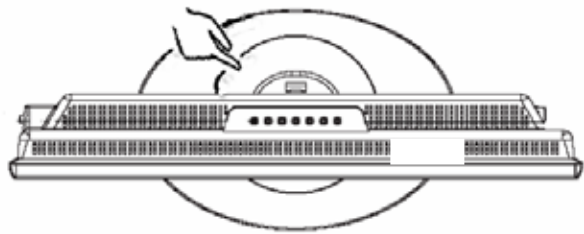
(○: Available)

3.Component names

➤ [Main unit]

Control panel

- An Adjustment buttons are located on the top of the control panel
- Indications for each button's function can be found on the inside of the control panel cover.



1. SUB-POWER

2. PROGRAM ▲

2. UP ▲

3. PROGRAM ▼

3. DOWN ▼

4. VOL ►

4. RIGHT ►

5. VOL ◄

5. LEFT ◄

6. INPUT

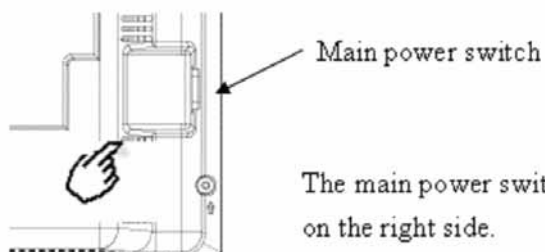
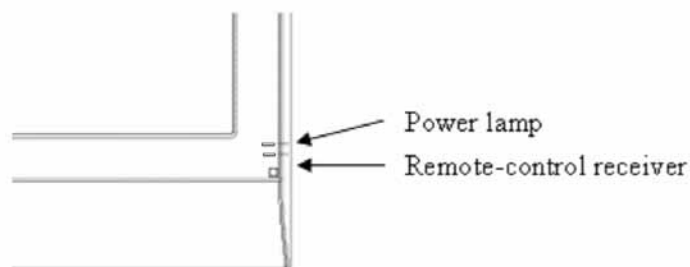
6.EXIT

7.MENU

7.ENTER

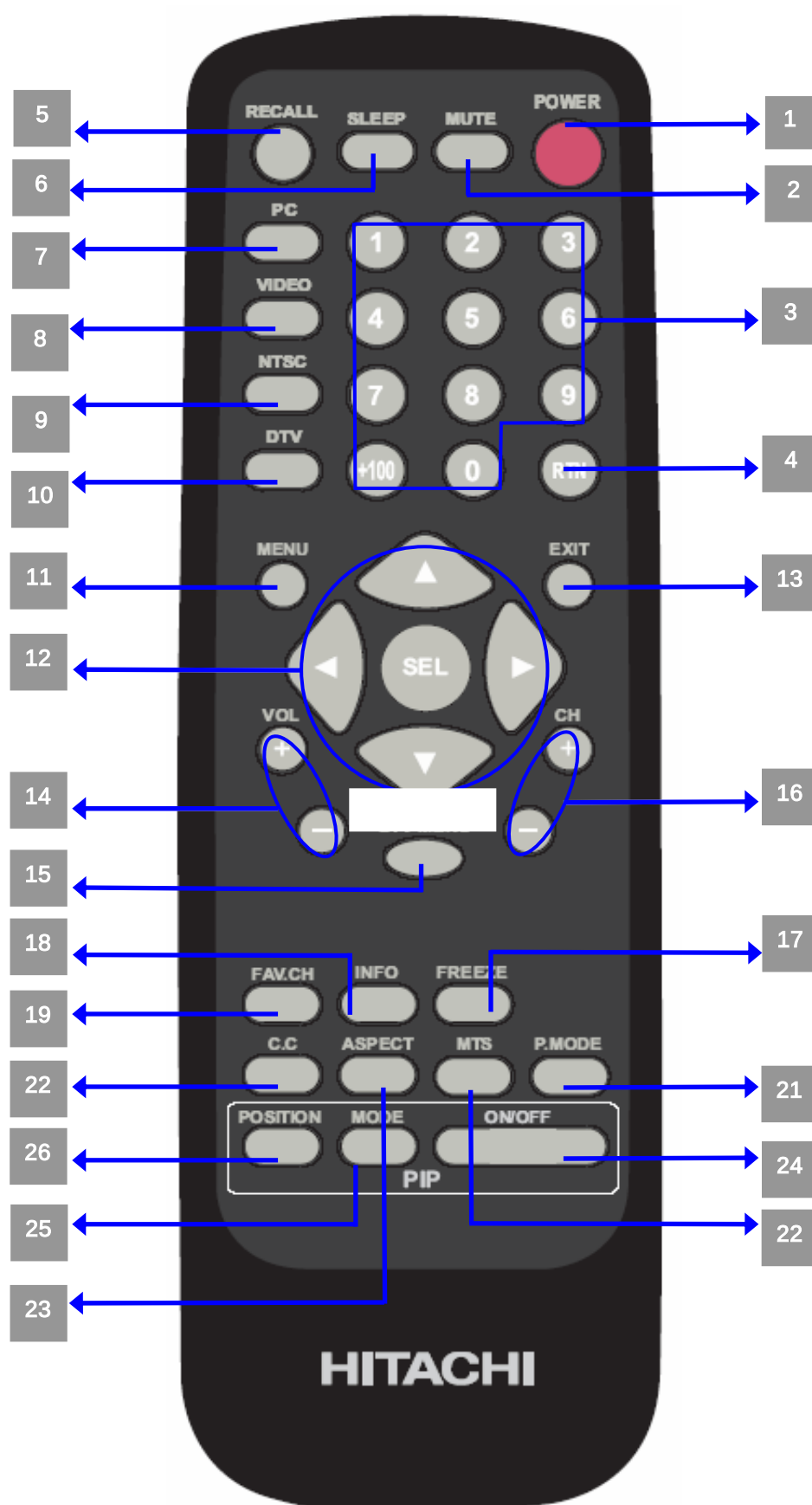
Normal Button Action

Button Action when MENU engaged



The main power switch is located at the back, on the right side.

➤ [Remote Control]



1. **Power button:** Press this button to turn the display set on or off.
2. **Mute button:** Press to mute audio.
3. **Channel selector buttons:** Select channel number.
4. **Return button:**
 - A. Press to return previous TV channel state in standard TV mode.
 - B. Press to return previous OSD menu when the OSD menu opening.
5. **RECALL button:** Press to display source input signal on the display.
6. **SLEEP button:** Press to set sleep mode timer. There is 30 minutes, 60 minutes, 90 minutes, 120 minutes and turn off to select.
7. **PC Source buttons:** Set up the input source PC; PC parts include DVI-D (or HDMI) / D-SUB.
8. **VIDEO Source buttons:** Set up the input source of Video; Video parts include Video1 (Y1P_B1P_R1), Video2 (Y2P_B2P_R2), Video3 (AV1 / SV1), Video4 (AV2 / SV2). If both SV and AV had signal input at the same time, the SV has priority output.
9. **NTSC Source buttons:** Set up the input source of NTSC; NTSC parts include CATV / AIR.
10. **DTV Source buttons:** Set up the input source of DTV Mode.
11. **Menu button:** Turn on OSD (On-Screen Display) menu.
12. **Direction buttons:**
 - A. (**▲/▼/◀/▶/SEL**): All the OSD features can be set or adjusted by using these buttons; it will highlight functions or adjust and set different features. Press it to toward desired direction and press the SEL button to select. (You can notice that the OSD prompt message to through theses key operation)
 - B. (**▲/▼**): In PIP mode, Press "▲" or "▼" keys to select which display window will be changed. Meanwhile, the speaker icon will be displayed on selected display window. User can change input video source on selected display window by pressing remote controller source keys.
 - C. (**◀/▶**): In POP mode, Press "▲" or "▼" keys to select which display window will be changed. Meanwhile, the speaker icon will be displayed on selected display window. User can change input video source on selected display window by pressing remote controller source keys.
13. **Exit button:** This button will exit all OSD.
14. **Volume (+/-) button:** Press to select the desired volume.
15. **DTV Menu:** Turn on DTV OSD (On-Screen Display) menu in DTV Mode.
16. **Channel (+/-) button:** Press to select the desired channel.
17. **Freeze buttons:** Pause the image in DTV Mode.
18. **INFO button:** Switch between Viewing mode, Channel Banner, and Channel Banner with Extended in DTV Mode.
19. **FAV.CH:** Switch to favorite channel in DTV Mode.
20. **C.C. button:** Press to turn on/off TV Closed Caption.
21. **P. Mode button:** Select picture status, they are Dynamic, Natural, Game and Cinema.
22. **MTS button:** Press to set sound mode, they are Stereo, SAP and Mono.

4. Service points

● Lead-free solder

This product uses lead-free solder (unleaded) to help protect the environment. Please read these instructions before attempting any soldering work.

Caution: Always wear safety glasses to prevent fumes or molten solder from getting into the eyes. Lead-free solder can splatter at high temperatures (600°C).

■ Lead-free solder indicator

Printed circuit boards using lead-free solder are engraved with an "F."

■ Properties of lead-free solder

The melting point of lead-free solder is 40-50°C higher than leaded solder.

■ Servicing solder

Solder with an alloy composition of Sn-3.0Ag-0.5Cu or Sn-0.7Cu is recommended. Although servicing with leaded solder is possible, there are a few precautions that have to be taken. (Not taking these precautions may cause the solder to not harden properly, and lead to consequent malfunctions.)

Precautions when using leaded solder

- Remove all lead-free solder from soldered joints when replacing components.
- If leaded solder should be added to existing lead free joints, mix in the leaded solder thoroughly after the lead-free solder has been completely melted (do not apply the soldering iron without solder).

■ Servicing soldering iron

A soldering iron with a temperature setting capability (temperature control function) is recommended.

The melting point of lead-free solder is higher than leaded solder. Use a soldering iron that maintains a high stable temperature (large heat capacity), and that allows temperature adjustment according to the part being serviced, to avoid poor servicing performance.

Recommended soldering iron:

- Soldering iron with temperature control function (temperature range: 320-450°C)

Recommended temperature range per part:

Part	Soldering iron temperature
Mounting (chips) on mounted PCB	320°C±30°C
Mounting (chips) on empty PCB	380°C±30°C
Chassis, metallic shield, etc.	420°C±30°C

The PWB assembly which has used lead free solder

- (1) IR PWB, KEY PWB, SW PWB, 2* I/O PWB
- (2) MAIN PWB
- (3) POWER BOARD

5.Adjustment

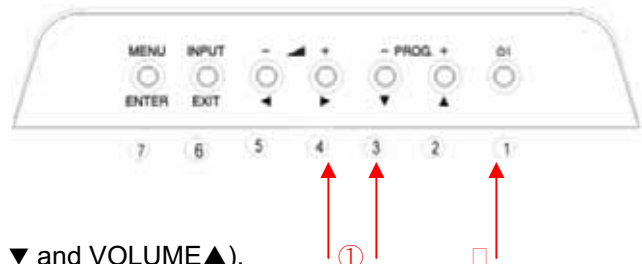
5.1 SERVICE (FACTORY) MODE ACCESS

This model has a Factory Mode, where the technician can access and adjust some of the color temperature settings. The Factory Mode has several different appearances, depending on the input signal.

Picture Setting for Factory Mode	
Table 1	NTSC : TV
Table 2	AV (composite)
Table 3	SV(S-Video)
Table 4	component: 480i
Table 5	component: 480p
Table 6	component: 1080i(60)
Table 7	component: 720p(60)
Table 8	PC: VGA
Table 9	PC:DVI

Preliminary

1. To access the Factory Mode, the LCD TV must be running.



Procedure

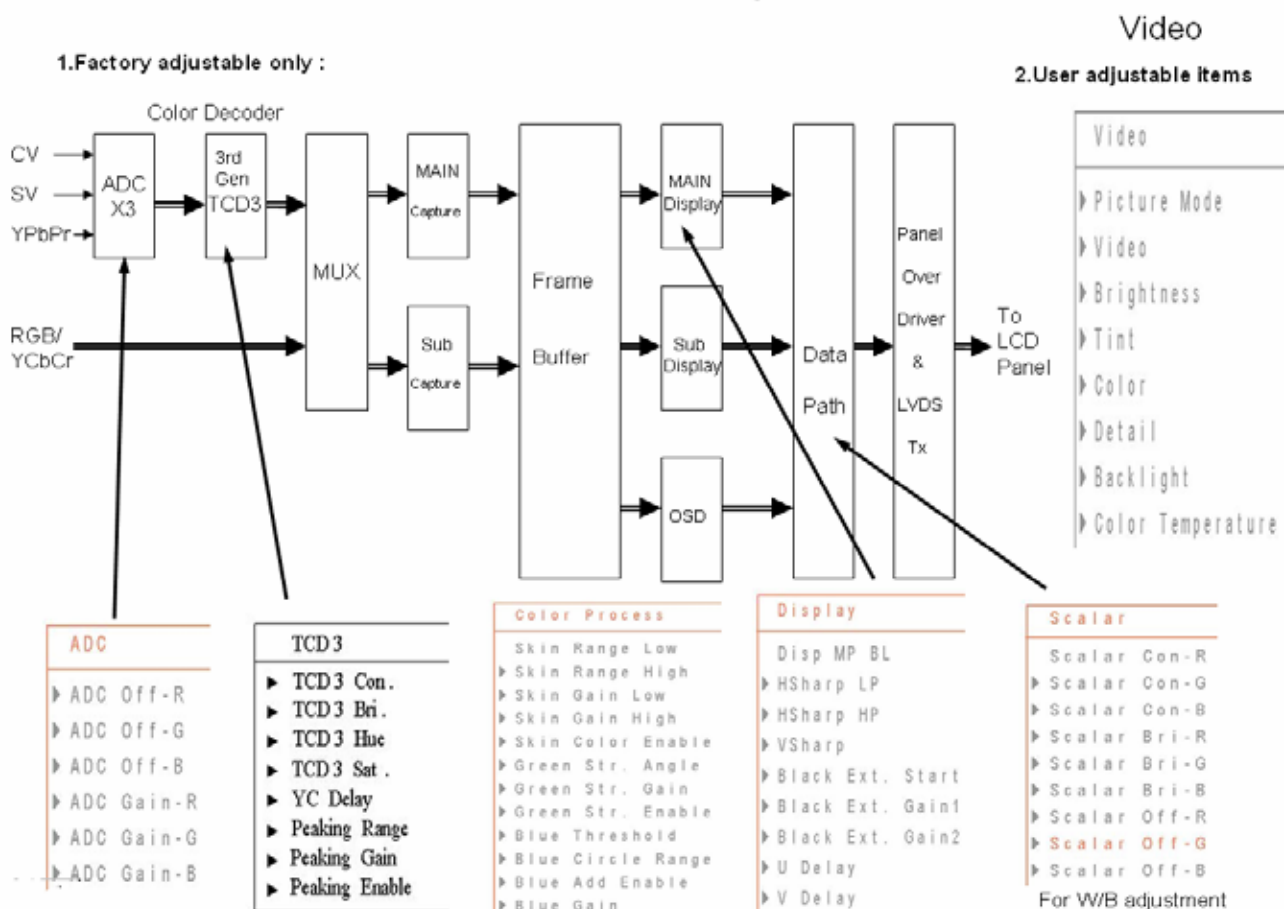
2. Press and hold the #3 and #4 button (PROGRAM ▼ and VOLUME▲).
3. While continuing to hold the #3 and #4 button, press and hold the #1 button (SUB-POWER).
4. After both buttons have been held down for five (5) seconds, first release the #1 button, then release the #3 and #4 button.
5. As stated previously, the input that the LCD TV had selected at the time will determine which actual FACTORY MODE display will show up. (See below)



● FACTORY MODE NAVIGATION

To navigate through the different menu items, use the ▲ or ▼ button on the remote control. The menu items will be high-lighted green as navigation occurs. To access a particular adjustment parameter, use the “ENTER” button on the remote control, which will cause a new menu to appear. To back up from the FACTORY MODE, use the RETURN or EXIT button on the remote control. To leave the FACTORY MODE, press POWER button on the remote control.

26”,32”,37” Hitachi Model use Trident chassis adjustment



Menu	Function	Description
<u>Video</u>		
—	Picture Mode	OSD menu video mode default setting
—	Picture	Display Contrast adjustment (Back- end)
—	Brightness	Display Brightness adjustment (Back- end)
—	Tint	Display Hue adjustment (Back- end)
—	Color	Display Saturation adjustment (Back- end)
—	Detail	Display Sharpness adjustment (Back- end)
—	Backlight	LCD backlight control (Back- end)
—	Color Temperature	Color temperature default setting (High or Low)
<u>ADC</u>		
—	ADC Gain - R	ADC input signal gain adjustment (R/Pr) , For D1 ~ D4 and PC only
—	ADC Gain - G	ADC input signal gain adjustment (G/Y) , For D1 ~ D4 and PC only
—	ADC Gain - B	ADC input signal gain adjustment (B/Pb) , For D1 ~ D4 and PC only
<u>TCD3</u>		
—	TCD3 Con.	Video decoder contrast adjustment (Front- end)
—	TCD3 Bri.	Video decoder brightness adjustment (Front- end)
—	TCD3 Hue	Video decoder Hue adjustment (Front- end)
—	TCD3 Sat.	Video decoder Cr Saturation adjustment (Front- end)
—	TCD3 Sat.	Video decoder Cb Saturation adjustment (Front- end)
—	YC Delay	Video decoder YC delay adjustment (Front- end)
—	Peaking Range	Video decoder sharpness peaking range (Front- end) $Y_{peak} = Y + YH * (peak\_gain/peak\_range)$ where Y is the luma and YH is the high frequency luma only
—	Peaking Gain	Video decoder sharpness peaking gain (Front- end)
—	Peaking Enable	Video decoder sharpness peaking function enable (Front- end)

<u>Scalar</u>		
—	Scalar Con - R	Output R contrast factor adjustment (color temperature function) Output R = (('Output R + (Scalar Off-R)) * (Scalar Con-R) + (Scalar Bri-R)
—	Scalar Con - G	Output G contrast factor adjustment (color temperature function) Output G = (('Output G + (Scalar Off-G)) * (Scalar Con-G) + (Scalar Bri-G)
—	Scalar Con - B	Output B contrast factor adjustment (color temperature function) Output B = (('Output B + (Scalar Off-B)) * (Scalar Con-B) + (Scalar Bri-B)
—	Scalar Bri - R	Output R brightness factor adjustment (color temperature function)
—	Scalar Bri - G	Output G brightness factor adjustment (color temperature function)
—	Scalar Bri - B	Output B brightness factor adjustment (color temperature function)
—	Scalar Off - R	Output R offset factor adjustment (color temperature function)
—	Scalar Off - G	Output G offset factor adjustment (color temperature function)
—	Scalar Off - B	Output B offset factor adjustment (color temperature function)
<u>Display</u>		
—	Disp MP BL	Display sharpness band pass gain of peaking adjustment (Back- end) , OSD sharpness adjustment item
—	HSharp LP	Display sharpness low pass gain of peaking adjustment (Back- end)
—	Hsharp HP	Display sharpness high pass gain of peaking adjustment (Back- end) , OSD sharpness adjustment item
—	Vsharp	Display Vertical sharpness adjustment (Back- end)
—	Black Ext. Start	Black stretch start-point control factor. Higher value means more black stretch (Back- end)
—	Black Ext. Gain1	Black stretch gain1
—	Black Ext. Gain2	Black stretch gain2
—	U Delay	Display U delay (comparing with Y)
—	V Delay	Display Y delay (comparing with V)

<u>Color Process</u>		
—	Skin Range Low	Skin color adjustment active range low
—	Skin Range High	Skin color adjustment active range high
—	Skin Gain Low	Skin color adjustment gain of range low
—	Skin Gain High	Skin color adjustment gain of range high
—	Skin Color Enable	Skin color adjustment function enable
—	Green Str. Angle	Green stretch active range (UV domain green color active angle)
—	Green Str. Gain	Green stretch gain
—	Green Str. Enable	Green stretch function enable
—	Blue Threshold	Blue add function active threshold
—	Blue Circle Range	Blue add function active range
—	Blue Add Enable	Blue add function enable
—	Blue Gain	Blue add gain

● COLOR TEMPERATURE ADJUSTMENTS

Following the procedures to make the color temperature adjustments. Note that a colorimetry meter (such as a Minolta CA-210) is required to measure the actual screen color temperature.

Low : $x=0.285 \pm 0.01$, $y=0.293 \pm 0.01$ = Color Temp.: 9300K

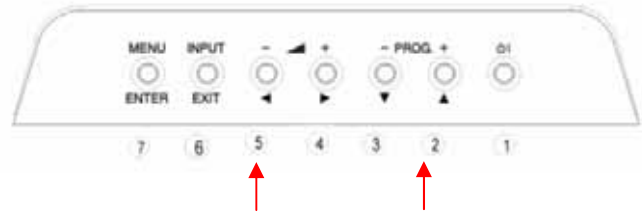
High : $x=0.268 \pm 0.01$, $y=0.283 \pm 0.01$ = Color Temp.: 12000K

5.2 Firmware update

This model has a Debug Mode, where the technician can debug and update the firmware.

Preliminary

1. To access the Debug Mode, the LCD TV must be running.

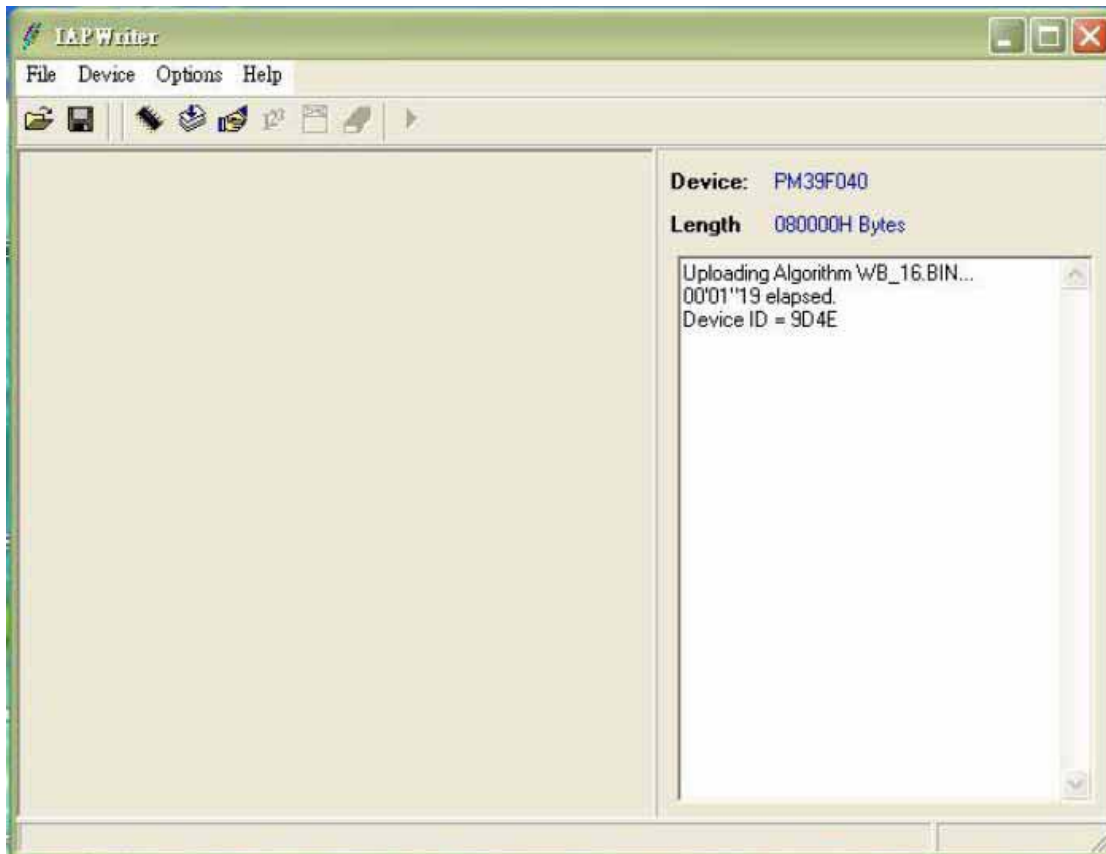


Procedure

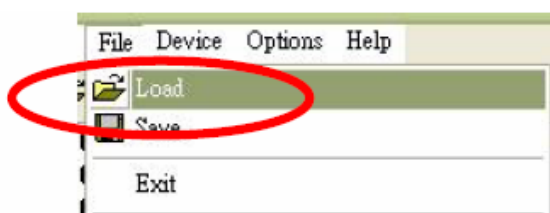
2. Press and hold the #2 and #5 button (PROGRAM ▲ and VOLUME▼).
3. After both buttons have been held down for five (5) seconds, then release the #2 and #5 button.
4. Click IAPWriter.EXE

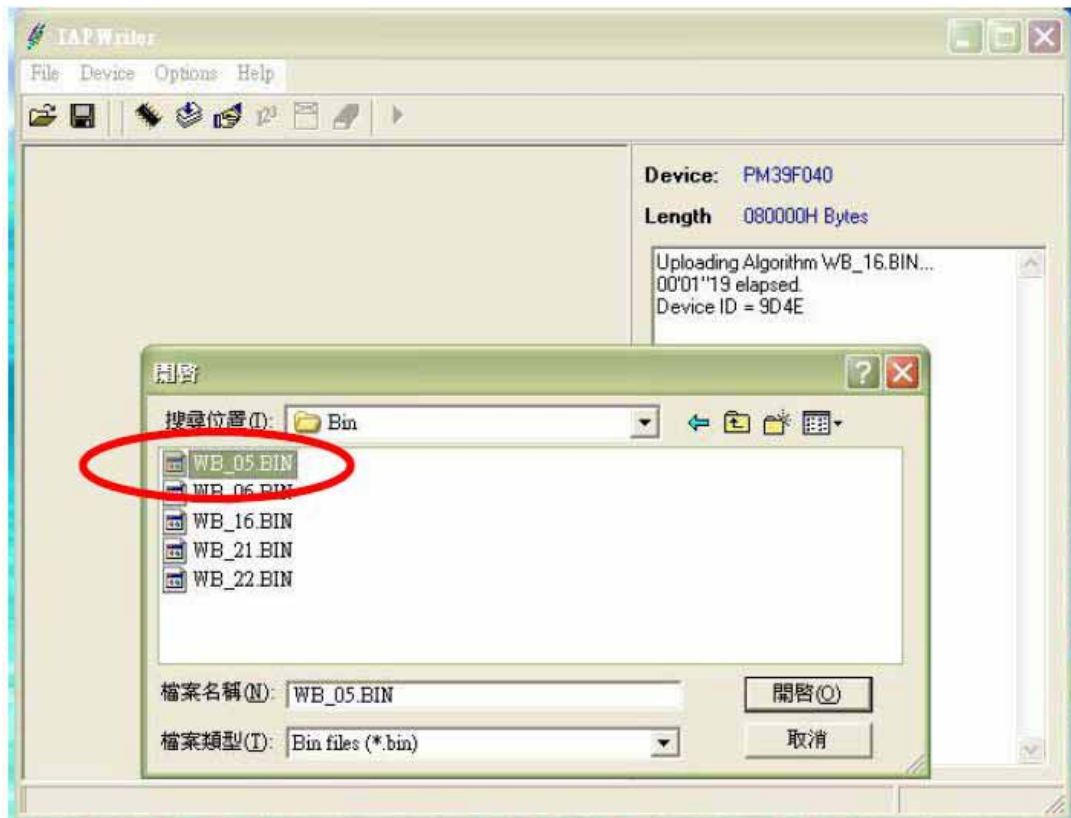


5. Following window will be shown after IAPWriter.EXE is executed.

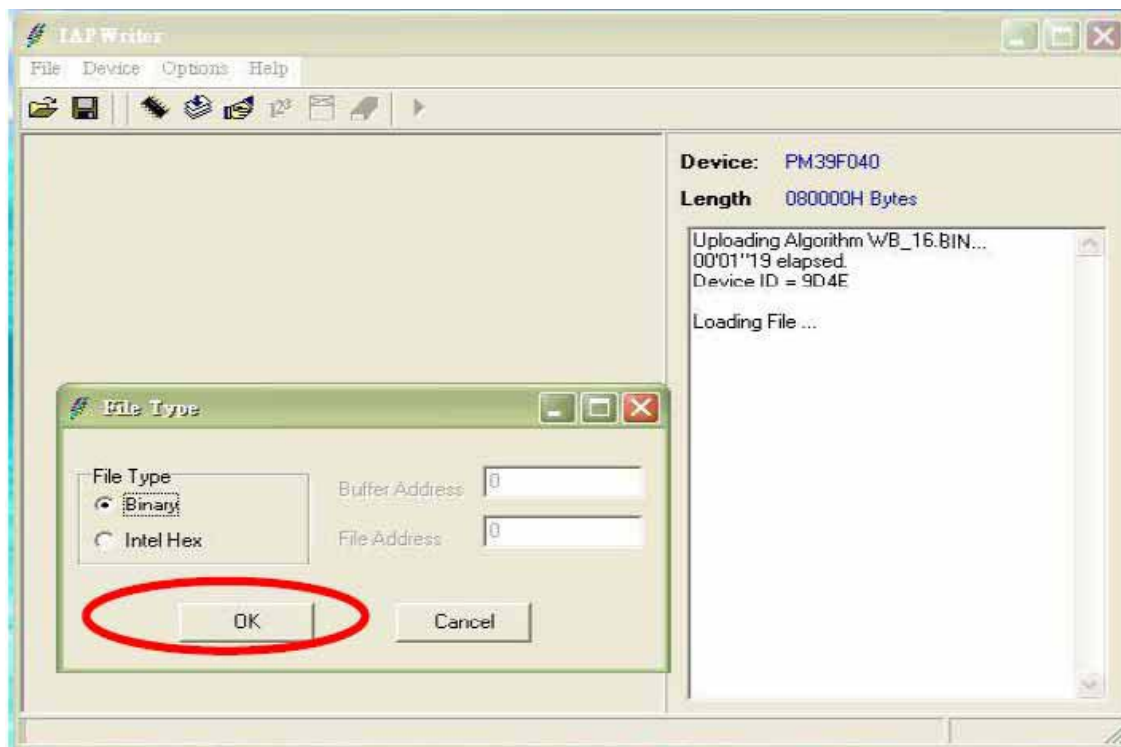


6. Load BIN file.

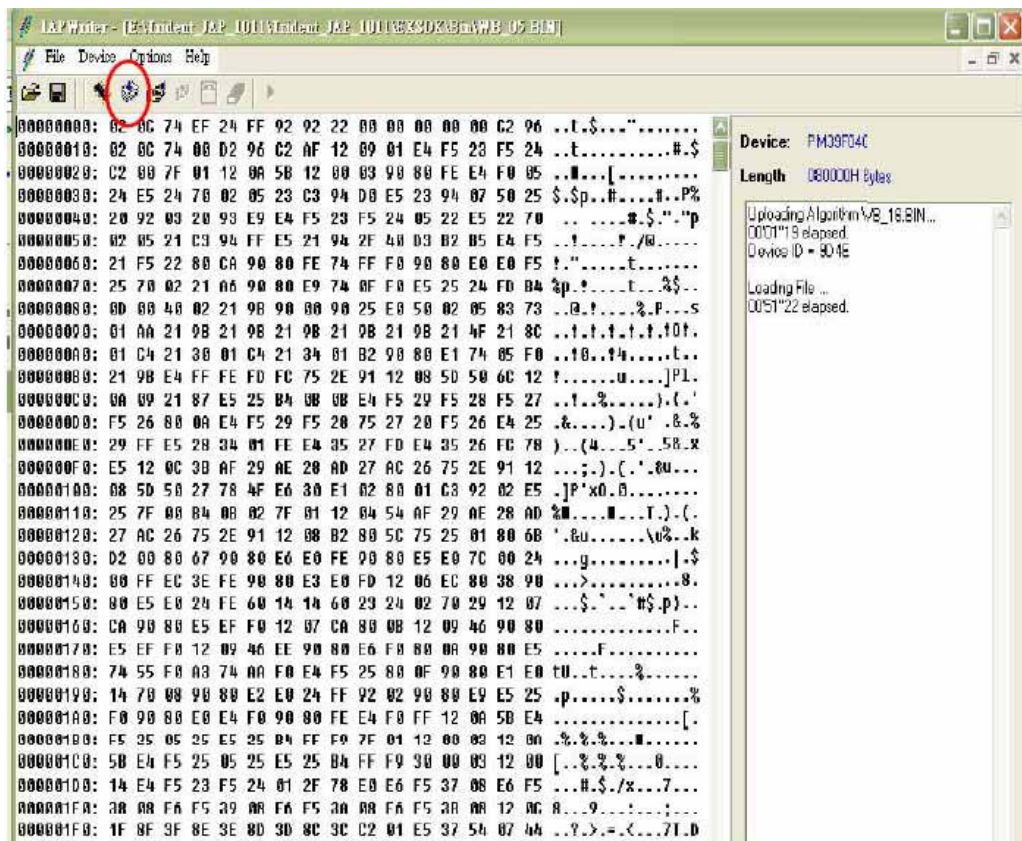




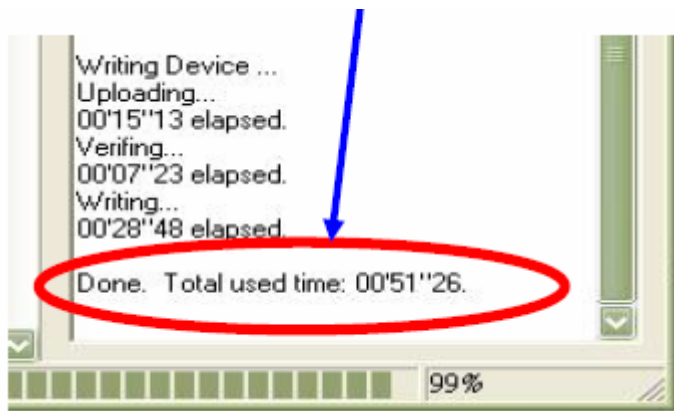
7. Click OK button



8. Click Write Device icon



9. IAP is finished while following message is shown.



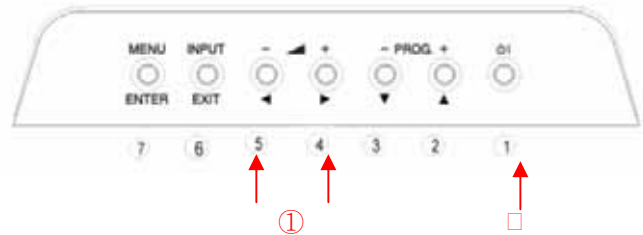
10. After IAP is done, please disconnect and reconnect AC power switch and do initialization.

5.3 Initialization

This model has a Initialization Mode, where the technician can initial the EEPROM.

Preliminary

1. To access the Bebbug Mode, the LCD TV must be running.



Procedure

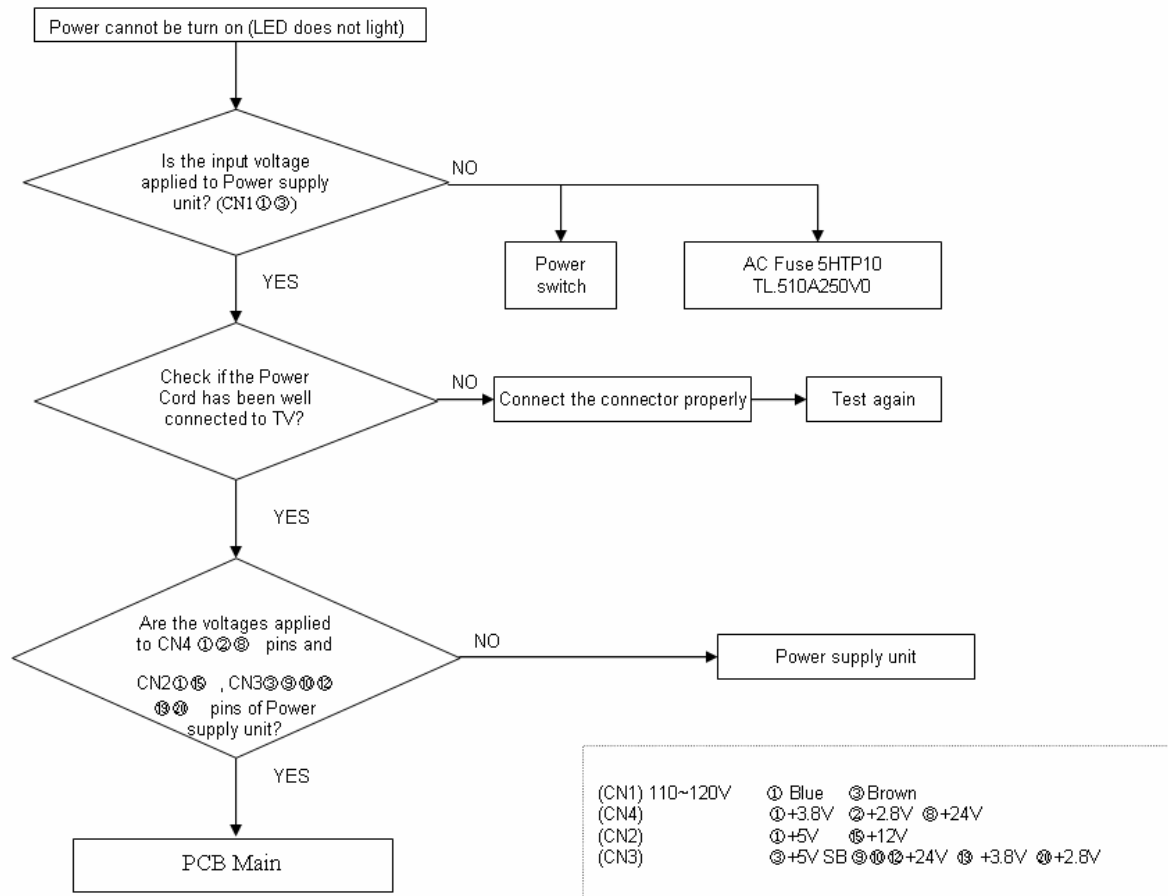
6. Press and hold the #4 and #5 button (VOLUME▲ and VOLUME ▼).
7. While continuing to hold the #4 and #5 button, press and hold the #1 button (SUB-POWER).
8. After both buttons have been held down for five (5) seconds, first release the #1 button, then release the #4 and #5 button.
9. As stated previously, the input that the LCD TV had selected at the time will determine which actual INITIALIZATION display will show up. (See below)



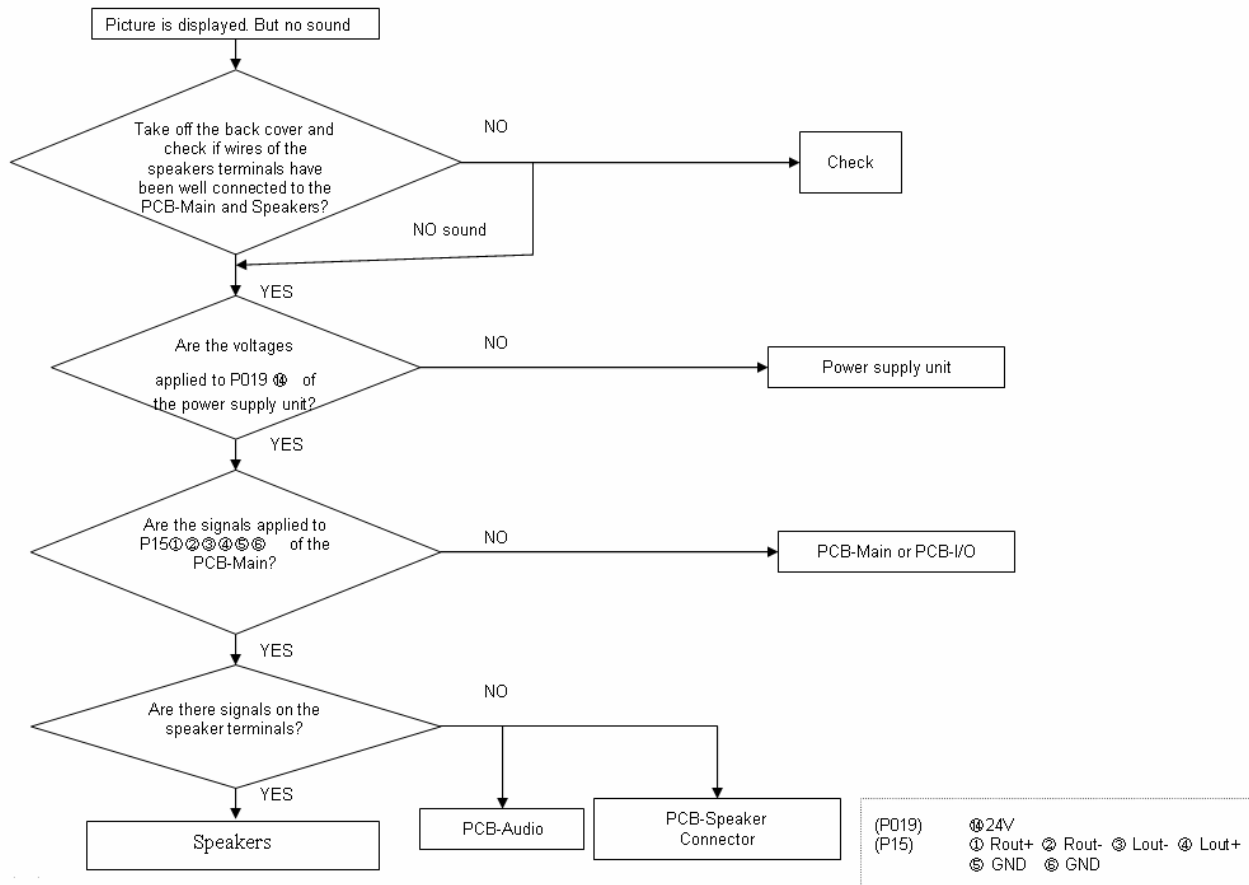
6.Troubleshooting

The flow chart shown below will help you to troubleshoot your LCD TV set with it doesn't display normally. Each procedure offers a simple way to check for system errors. Before starting, ensure that there is a signal in and that the LCD TV is turned on.

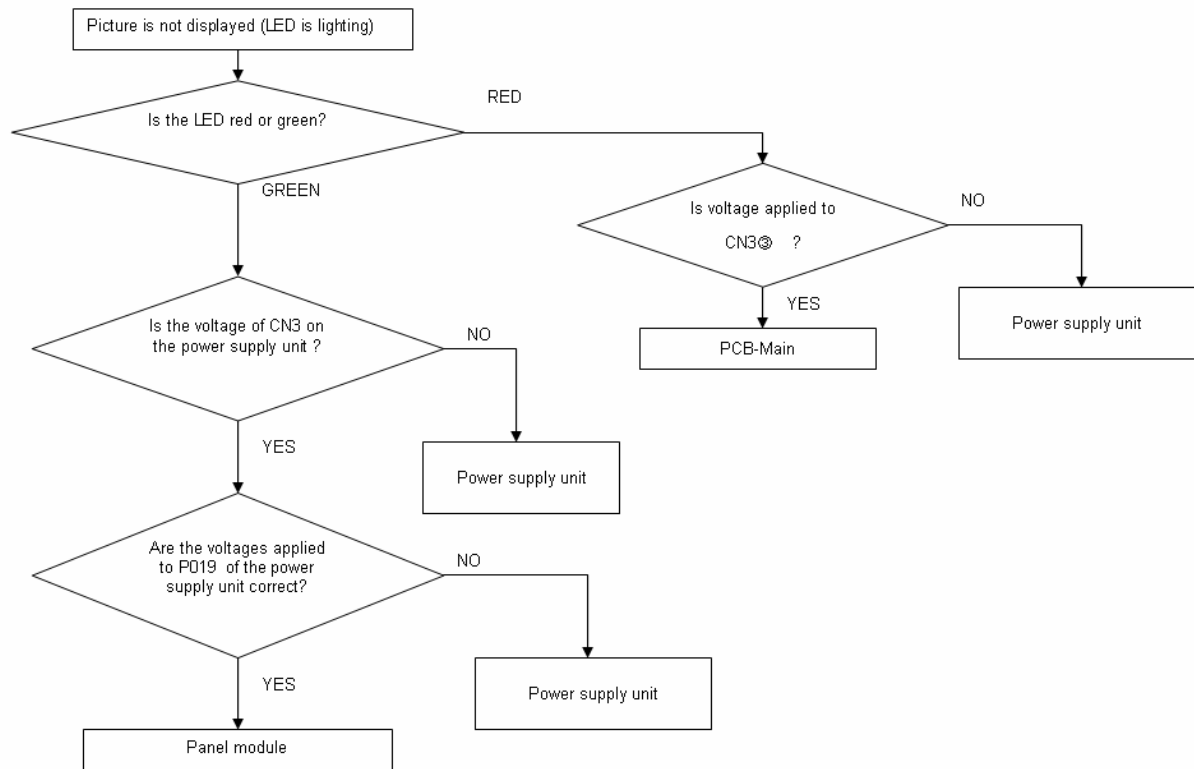
• Power Turn On Issue



• No Sound Issue

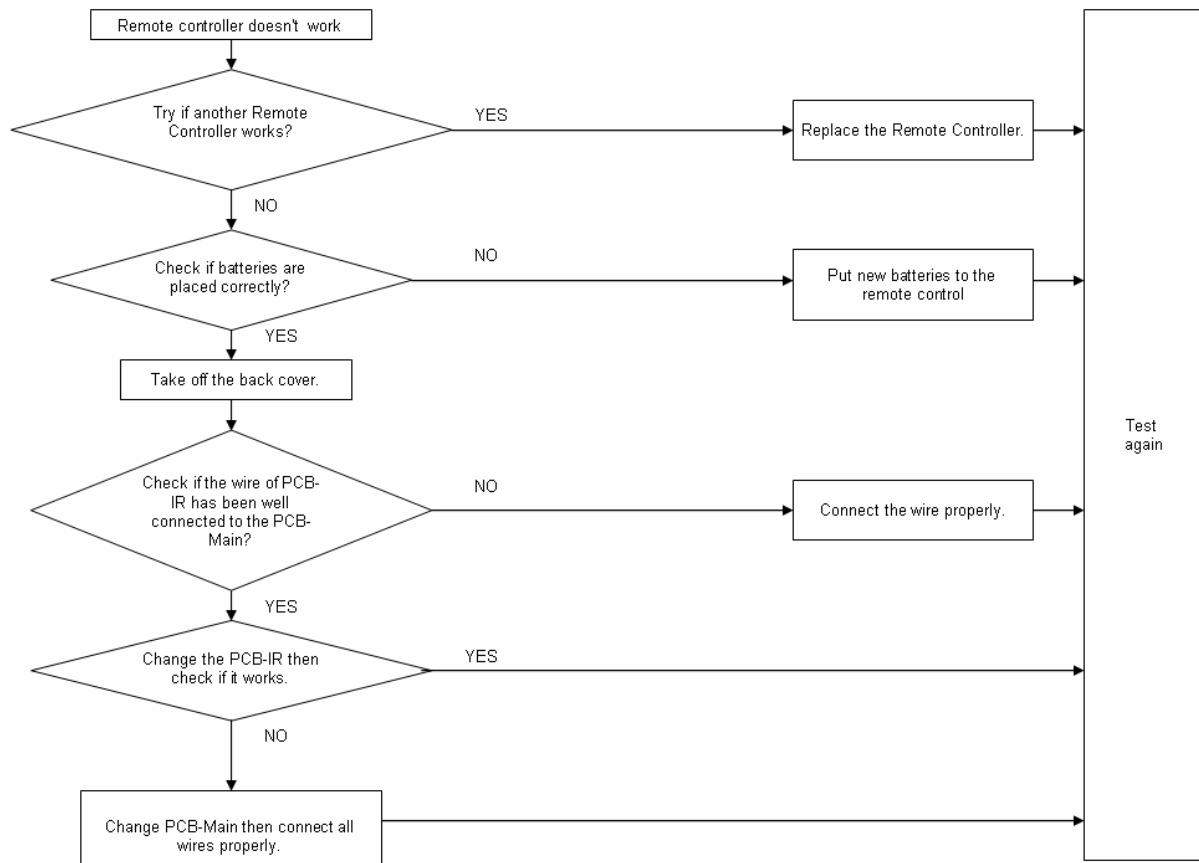


• No Picture Issue

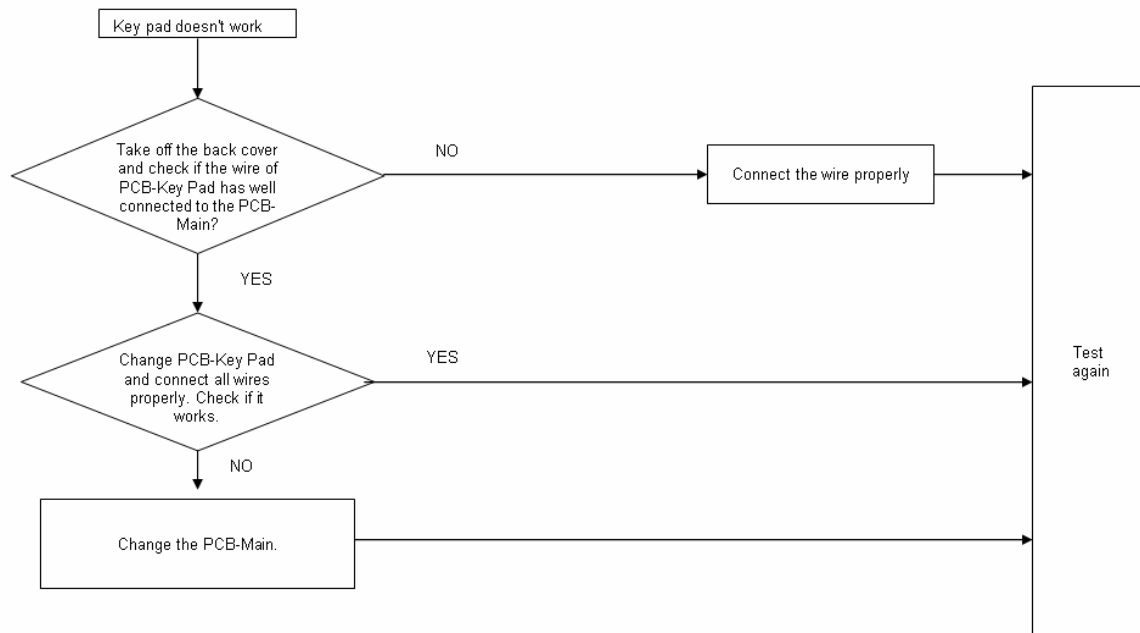


(CN3) Ⓜ +3.8V Ⓜ +5V SB Ⓜ +5V
 (P019) Ⓜ +5V SB Ⓜ +3.8V

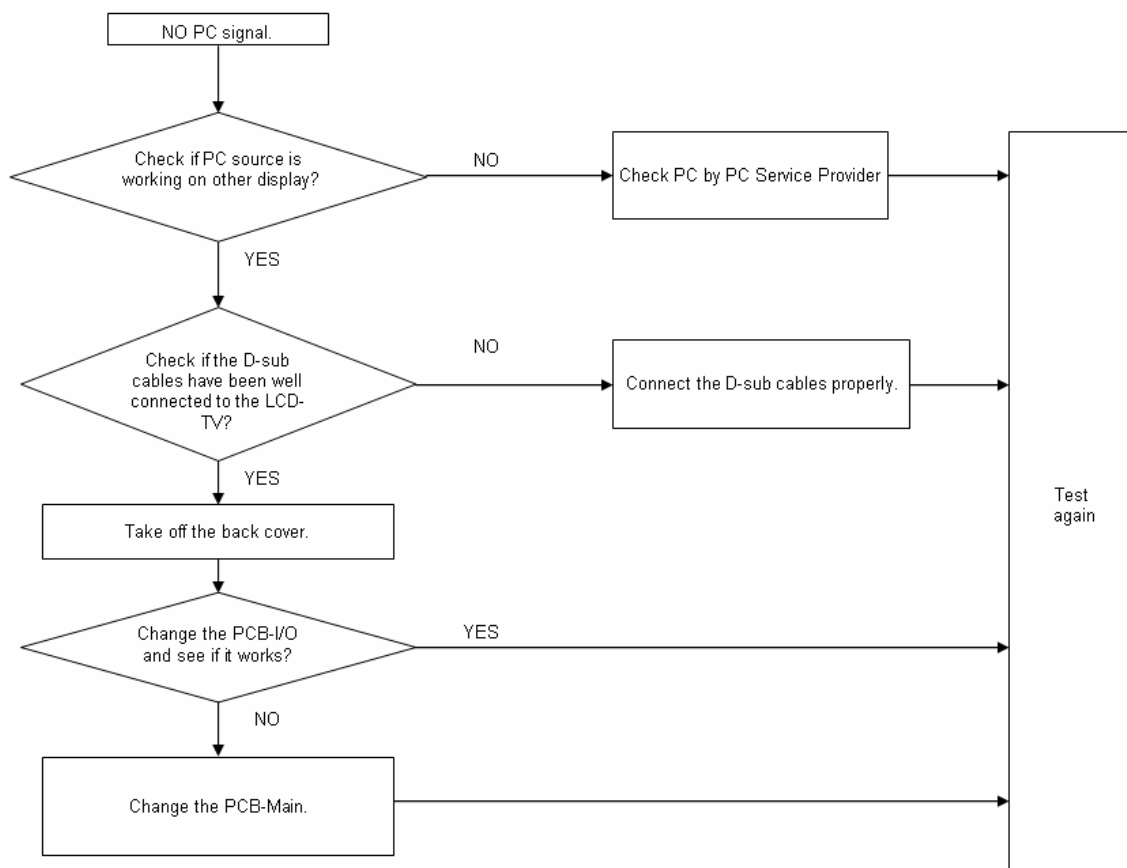
• Remote Control doesn't Work



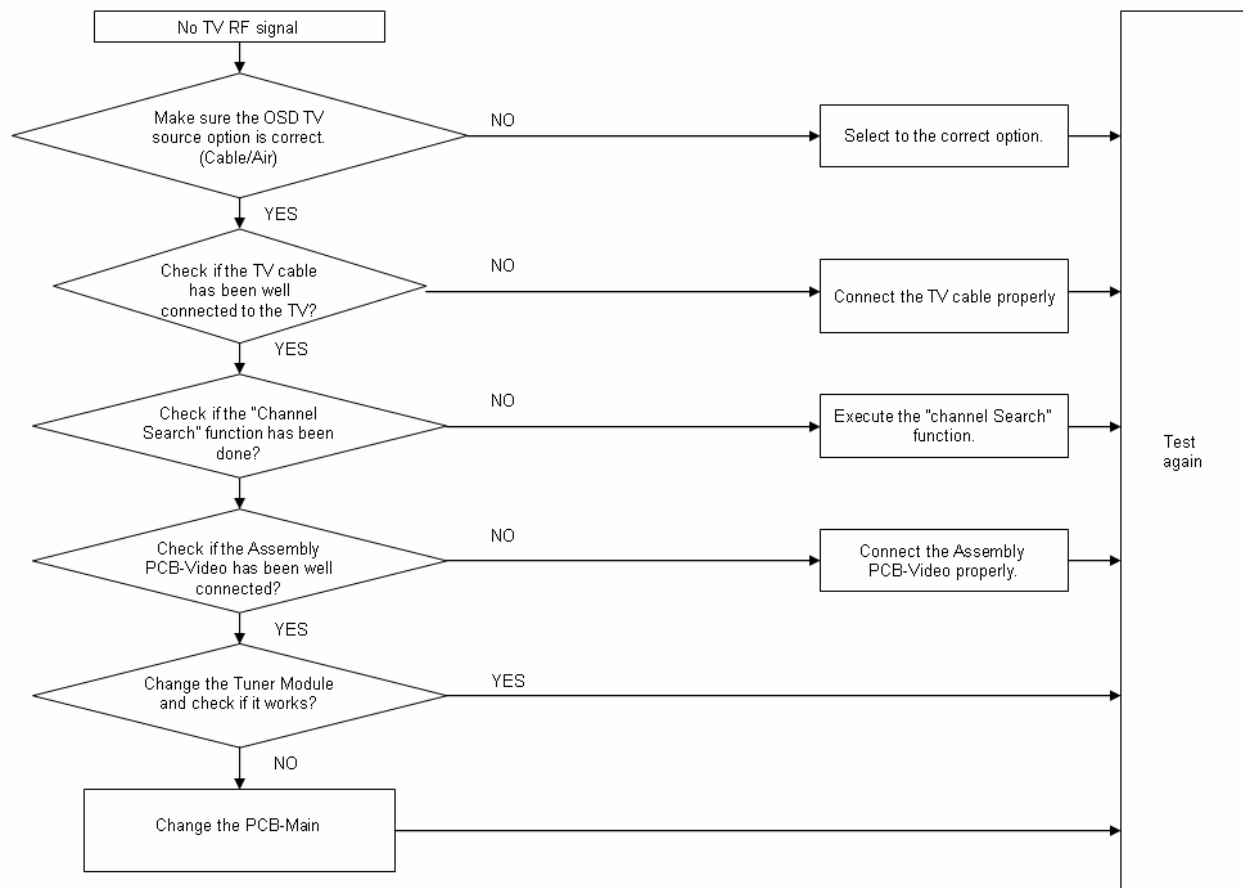
• Key Pad doesn't Work



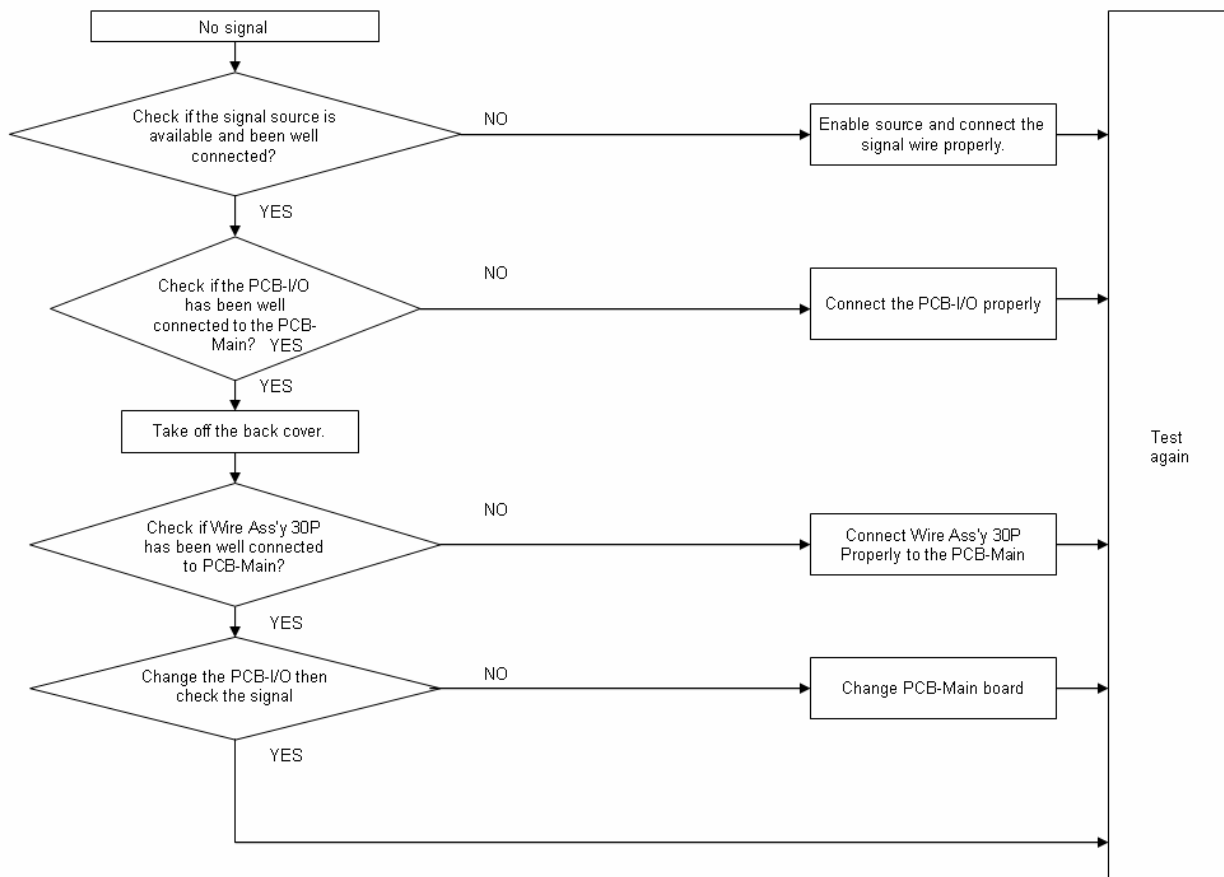
• No PC Signal (Analog RGB)



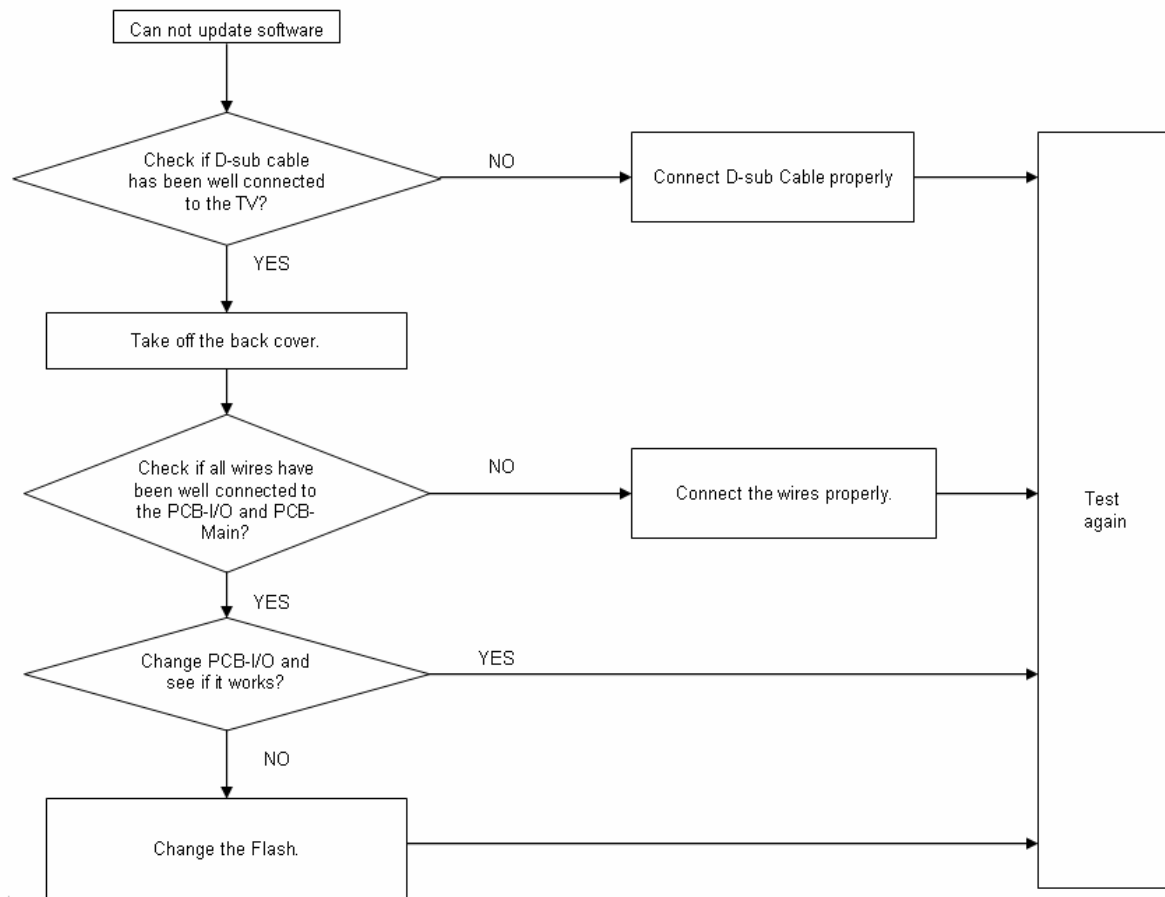
• TV RF Source no Signal



• No Signal Issue (Composite, Component)



- **Software can't be updates**



7. Self Diagnosis Function

If a problem arises while you are using the TV, please read this self diagnosis function guide carefully before you ask to have the TV repaired. You may be able to fix it easily by yourself. For example, if the mains plug is disconnected from the mains outlet, or the TV aerial has problems, you may think there is a problem with the TV itself.

Important:

- This self diagnosis function guide only covers problems whose causes are not easy to decide. If you have a question when you are operating a function, read the page(s) for that function carefully, not this self diagnosis function guide.
- If you follow the advice in this self diagnosis function guide without any success, unplug the mains plug and ask your TV to be repaired. Do not attempt to repair the TV by yourself or to remove the rear cover of the TV.

If you cannot turn on the TV:

- Are the AC plug on the power cord from the TV is connected to AC outlet?
- Make sure to set the VCR/TV/DVD switch to the TV position. You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

Poor picture:

- If noise totally blocks out the picture, there may be a problem with the aerial or the aerial cable. Check the following to try to solve the problem:
 - Have the TV and aerial been connected properly?
 - Has the aerial cable been damaged?
 - Is the aerial pointing in the right direction?
 - Is the aerial itself faulty?
- If the TV or aerial suffers interference from other equipment, stripes or noise may appear in the picture. Move any equipment such as an amplifier, personal computer, or a hair drier, that can cause interference away from your TV. Or try moving the TV. If the aerial suffers interference from a radio tower or high-voltage wire, please contact your local dealer.
- If the TV suffers interference from signals reflecting from mountains or buildings, double-pictures(ghosting) will occur. Try to change the aerial's direction or replace it with one with better directionality.
- Have the COLOR and BRIGHT settings been adjusted properly? Follow the description "PICTURE ADJUSTMENT" to try to adjust them properly.
- Videotaping teletext is not recommended because it may not record correctly.
- When viewing images from commercially available video software products, or videos from videotapes which have been recorded improperly, the top of the image may be distorted. This is due to the condition of the video signal. There is nothing wrong with the TV.

Poor sound:

- Have you adjusted BASS or TREBLE properly? If not, follow the description "SOUND ADJUSTMENT".

If the TV does not respond to the remote control:

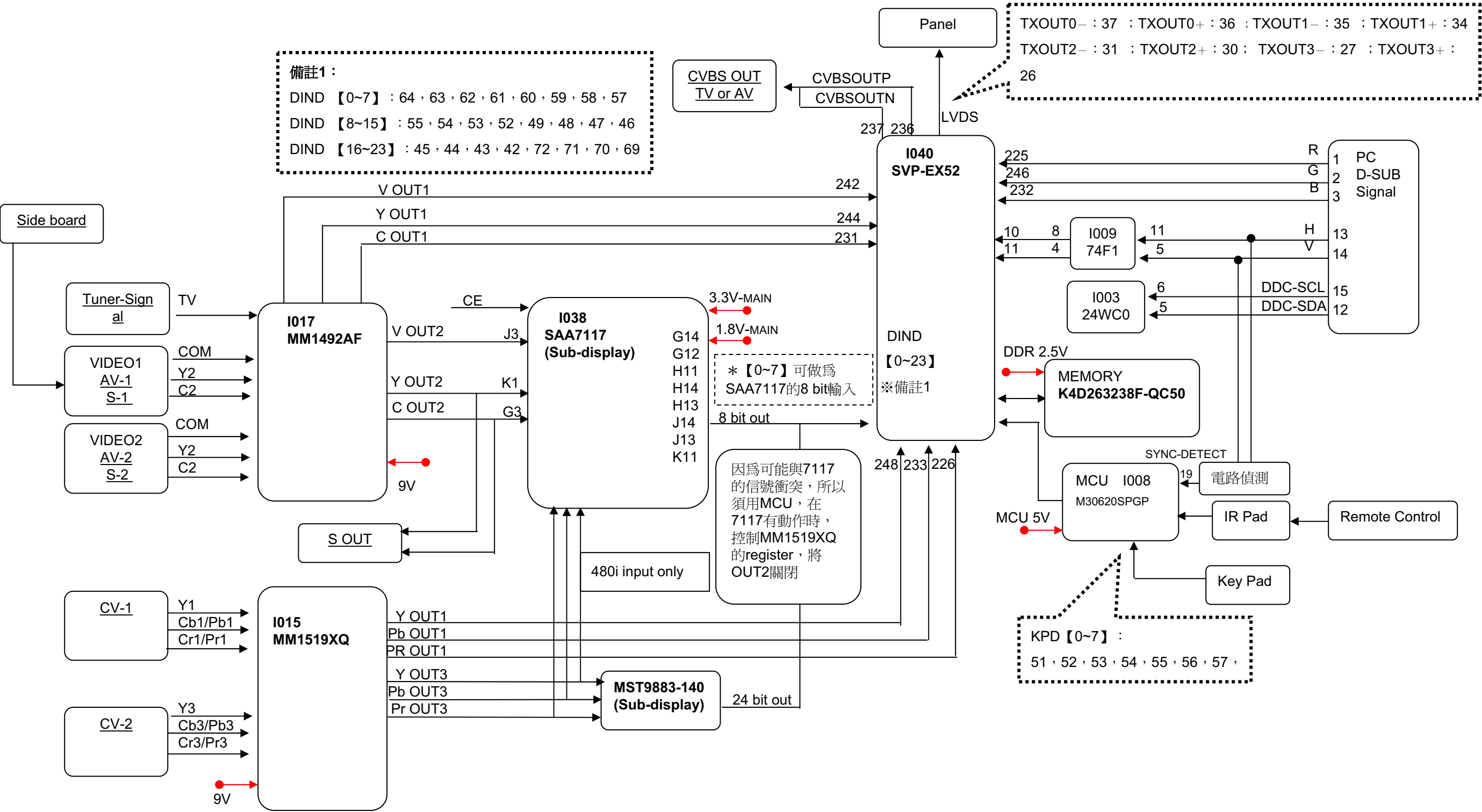
- Have the batteries of the remote control worn out? Follow the description "PUTTING THE BATTERIES INTO THE REMOTE CONTROL" and replace them with new batteries.
- Have you attempted to use the remote control from the sides or rear of the TV or from more than seven meters away from the TV? Use the remote control in the front of your TV or from less than seven meters away.
- If the TV suddenly stops responding, disconnect the power cord of the TV from the AC outlet. Connect them to the AC outlet again to turn on the TV. If the TV returns to a normal state, it is not a failure.

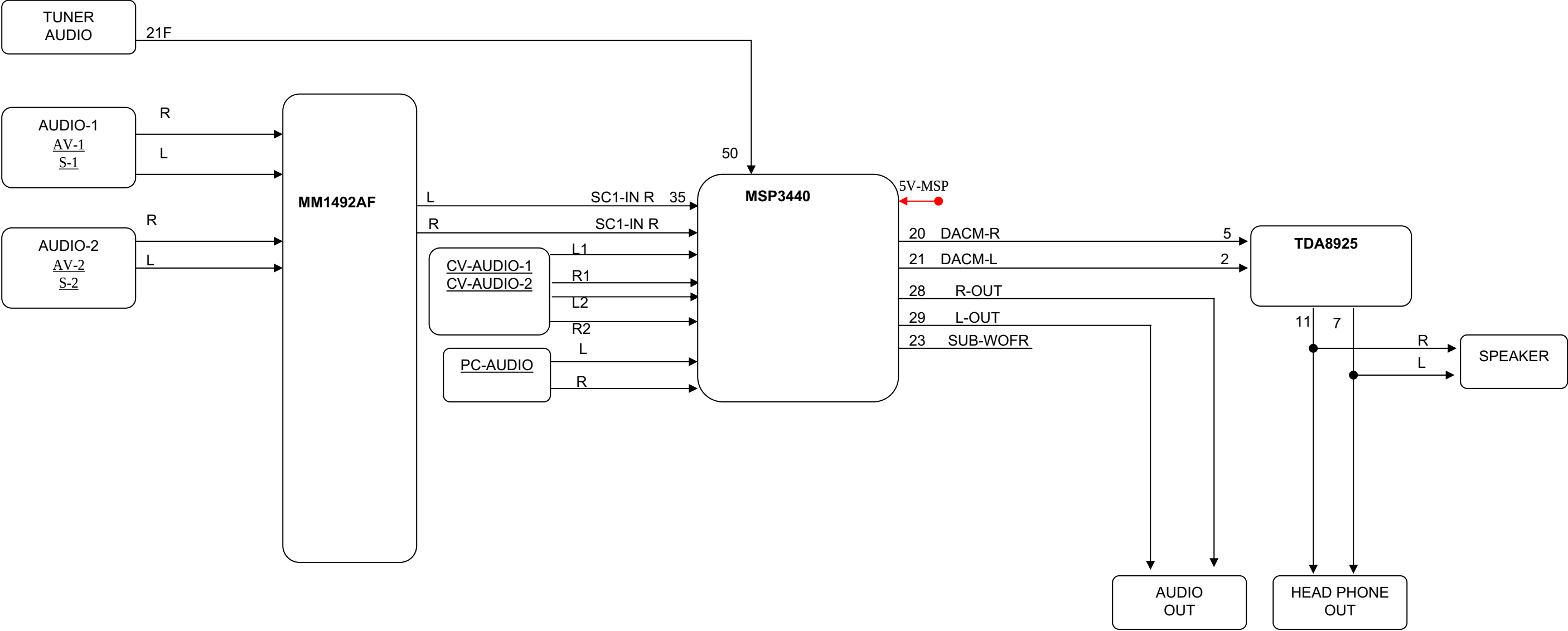
Other concerns:

- When the SLEEP TIMER function operates, the TV is automatically turned off. If the TV suddenly turns off, try to press the standby button to turn on the TV once again. If the TV goes back to normal, there is no problem.
- It takes a short period of time from the time an operation such as changing channels is performed until an image is displayed. This is not a malfunction. This is the time required for the image to stabilize it can be displayed.
- The TV may make a crackling sound due to a sudden change in temperature. The picture or sound may be normal. If you hear crackling sounds frequently while you are viewing the TV, there may be other causes. As a precaution, ask your service technician to inspect it.
- The top of the TV and the screen may become hot during use but this has no effect on the performance of the TV. Ensure that the ventilation holes are not blocked.
- When the picture is unstable, the screen may become white for a moment. This occurs when the signal which drives the liquid crystal is missing. This is not a malfunction.
- When a still image has been displayed for a long period, a faint residual image may remain on the screen for a short time after the power has been turned off or when another image is displayed. This is not a malfunction and the image will eventually disappear.

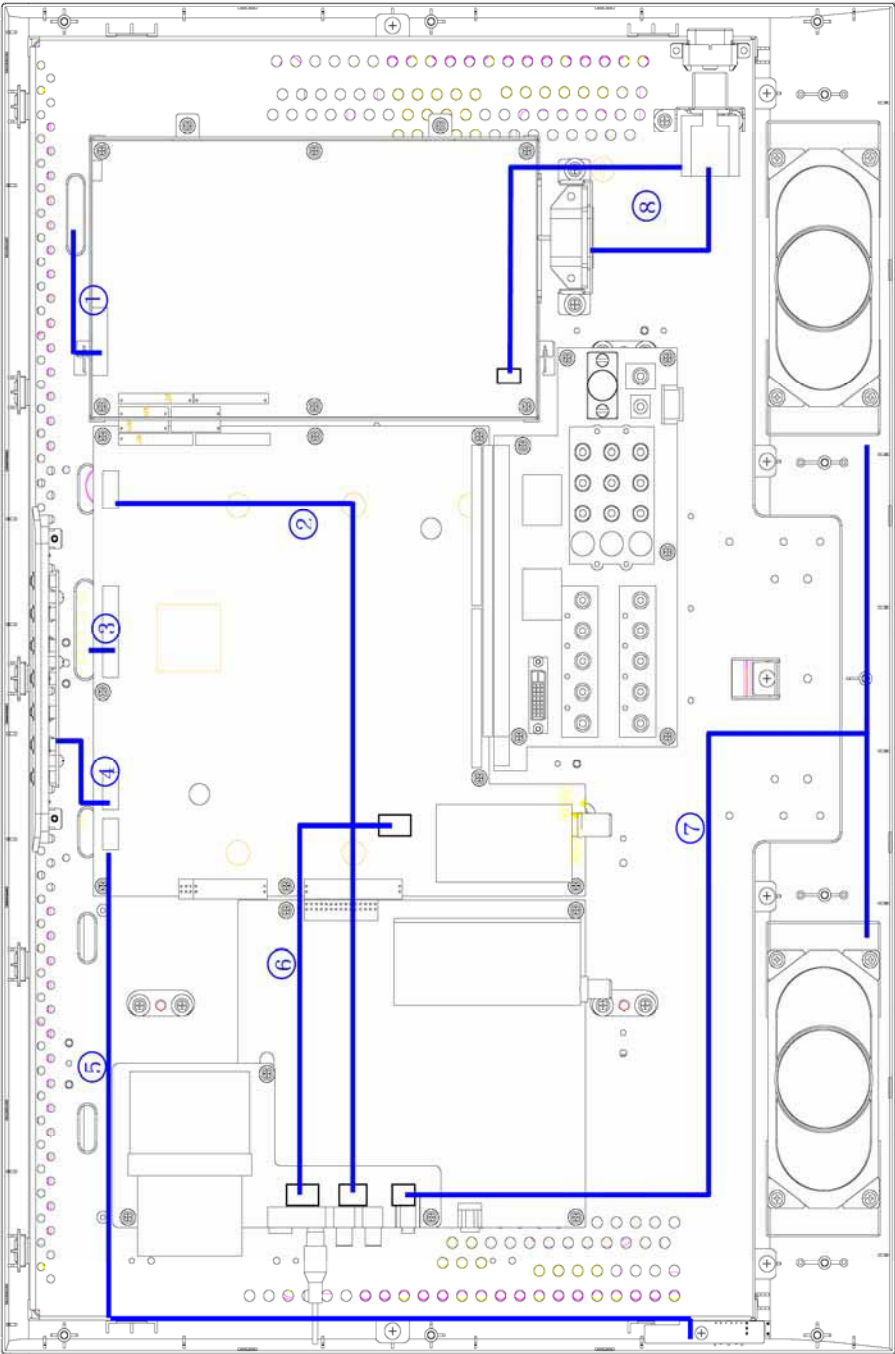
8.Block Diagram

➤ LCD-TV
HITACHI 26-US
VIDEO PART





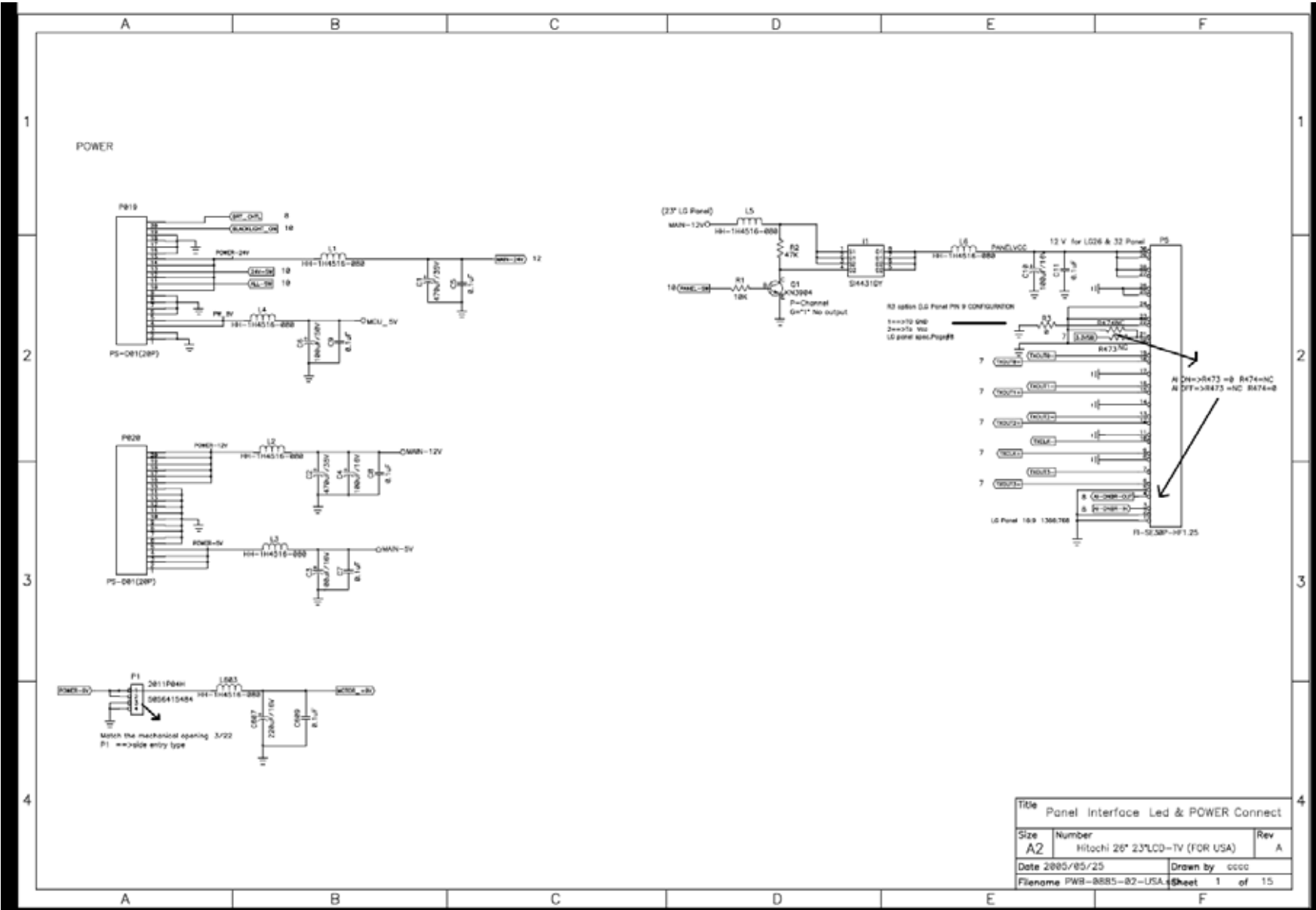
9. Wiring Block diagram

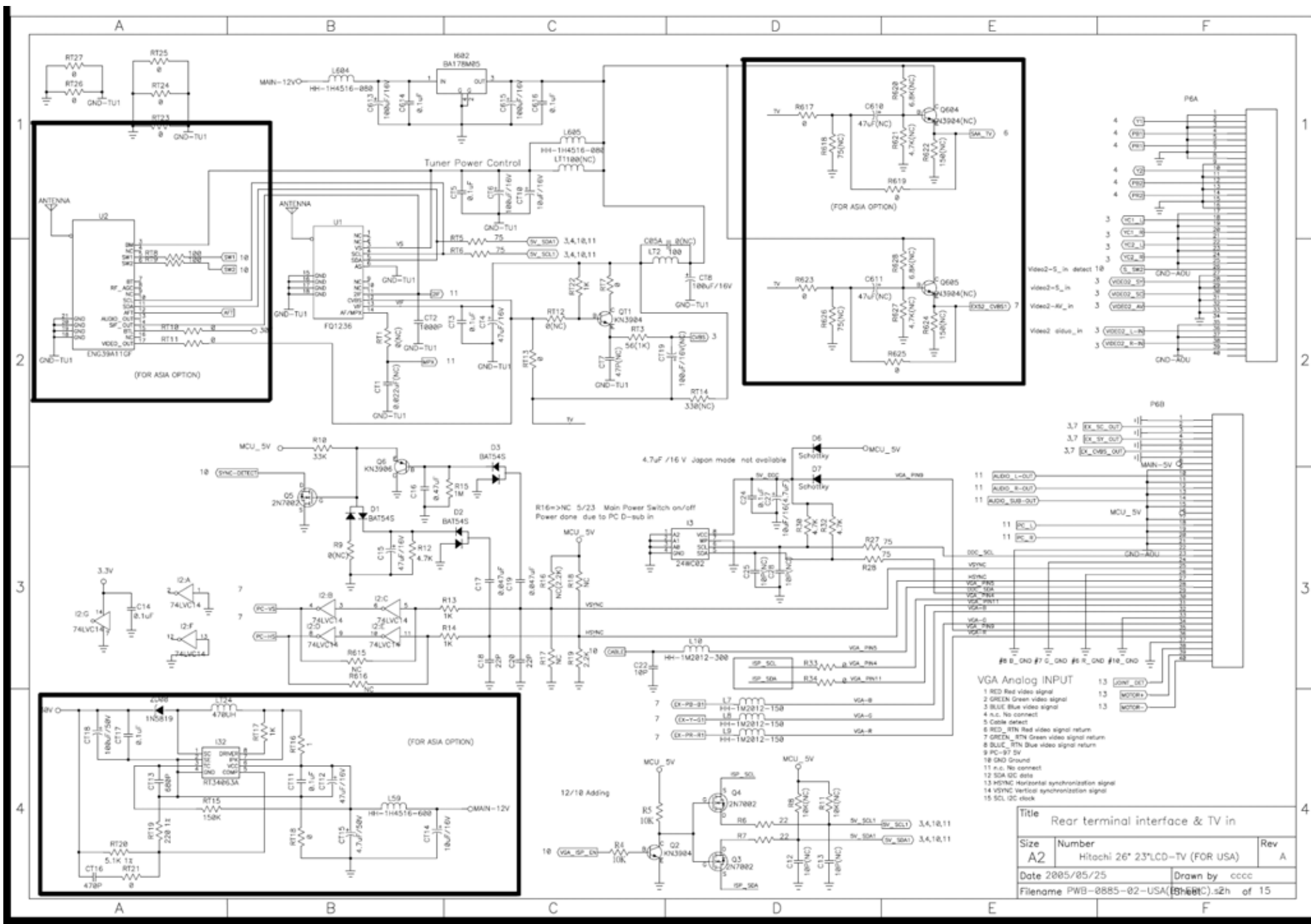


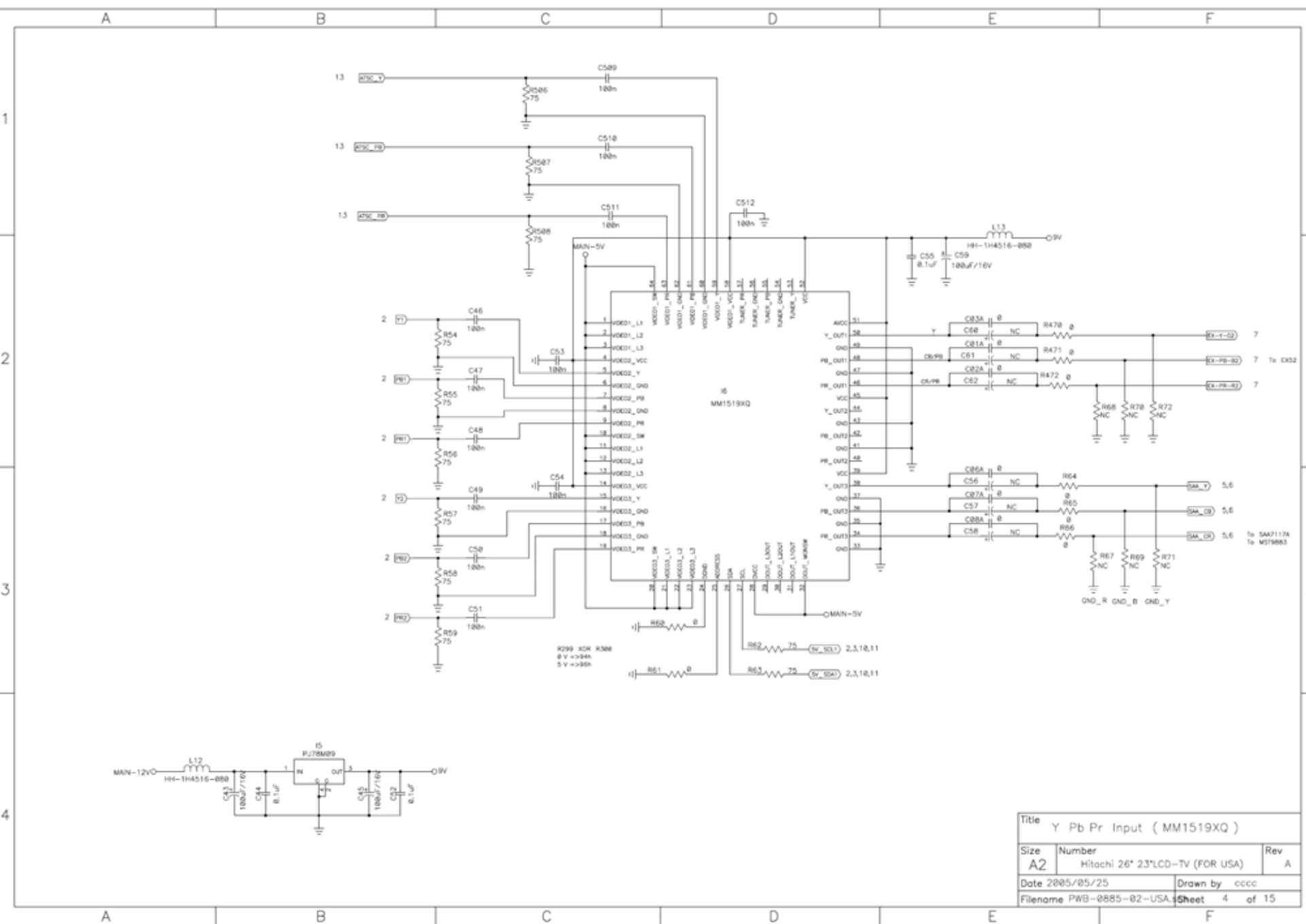
Item	No.	Wire	Part No.
1	V901B	Wire Ass'y W12/14/12P Conn.	E057414004
2	P015A	Wire Ass'y W6/6P Conn.	E057406003
3	V901A	Wire Ass'y W30/30P Conn.	E057430010
4	P011A	Wire Ass'y W8/8P Conn.	E057408004
5	P010A	Wire Ass'y W5/5P Conn.	E057405010
6	P008A	Wire Ass'y W12/12P Conn.	E057412007
7	P905A	Wire Ass'y W4/2P Conn.	E057404012
8	SW01A	Wire Ass'y Inlet W3P Conn.	E057403012

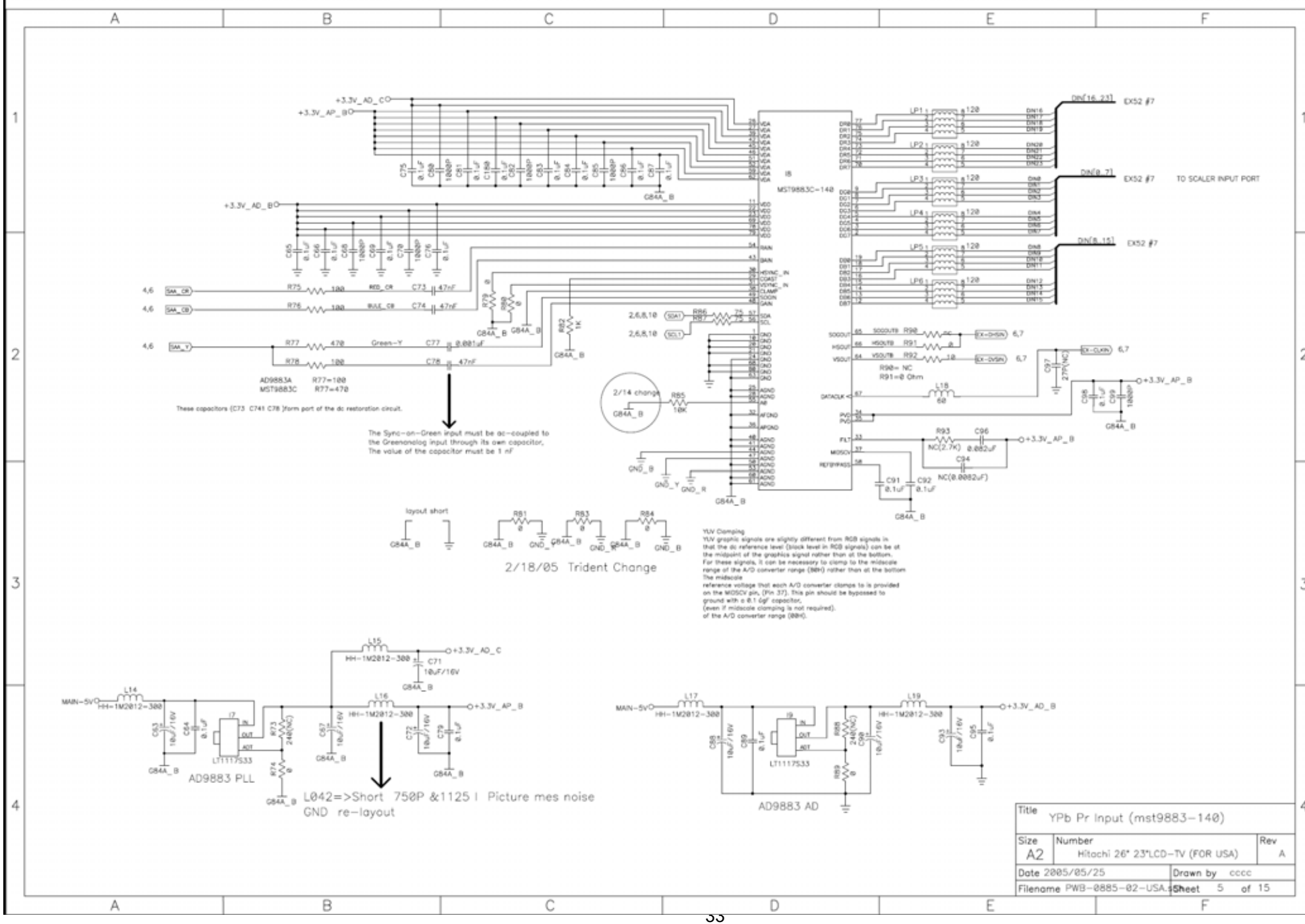
10.Circuit Diagram

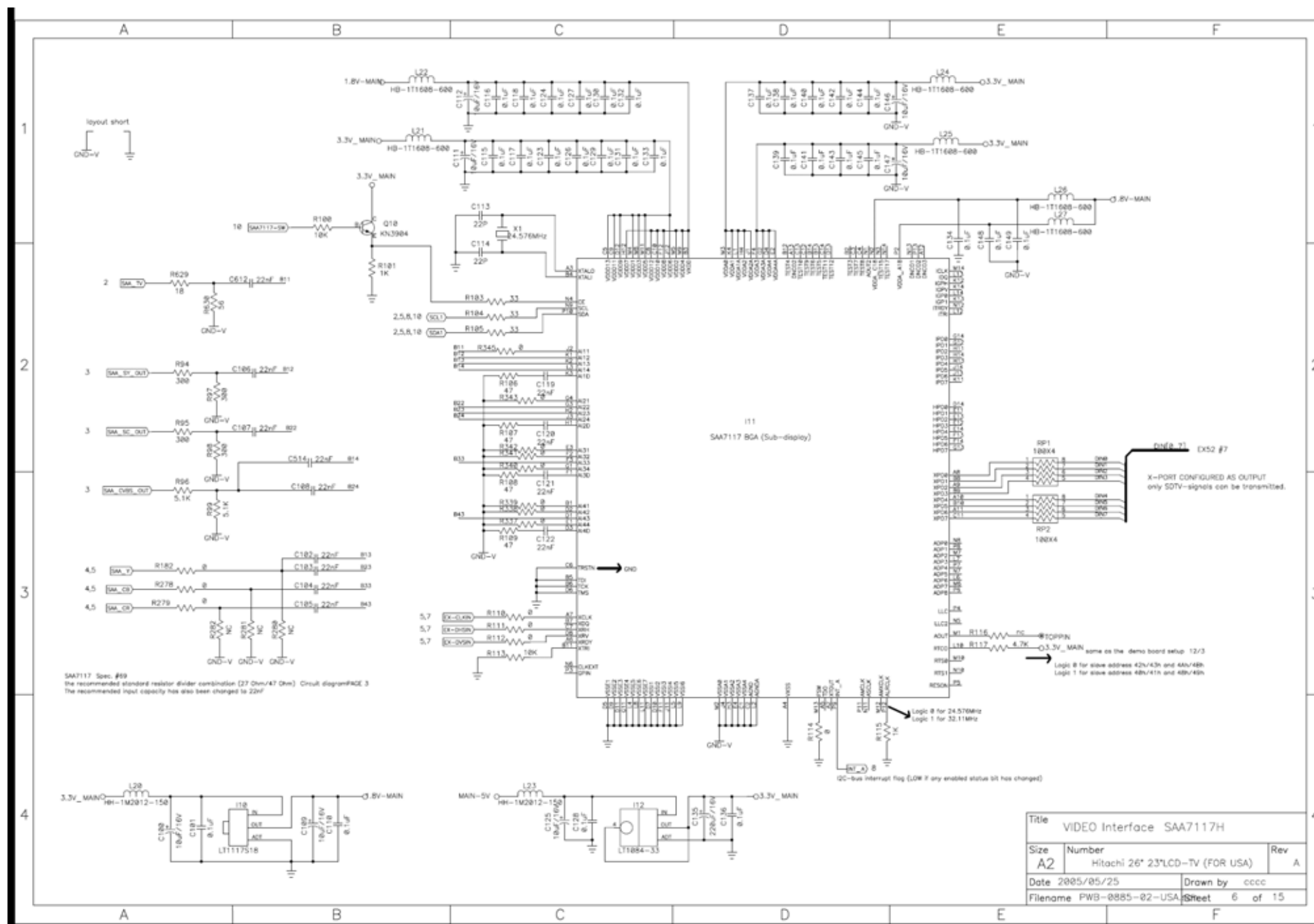
➤ Main Board (PWB-0885)

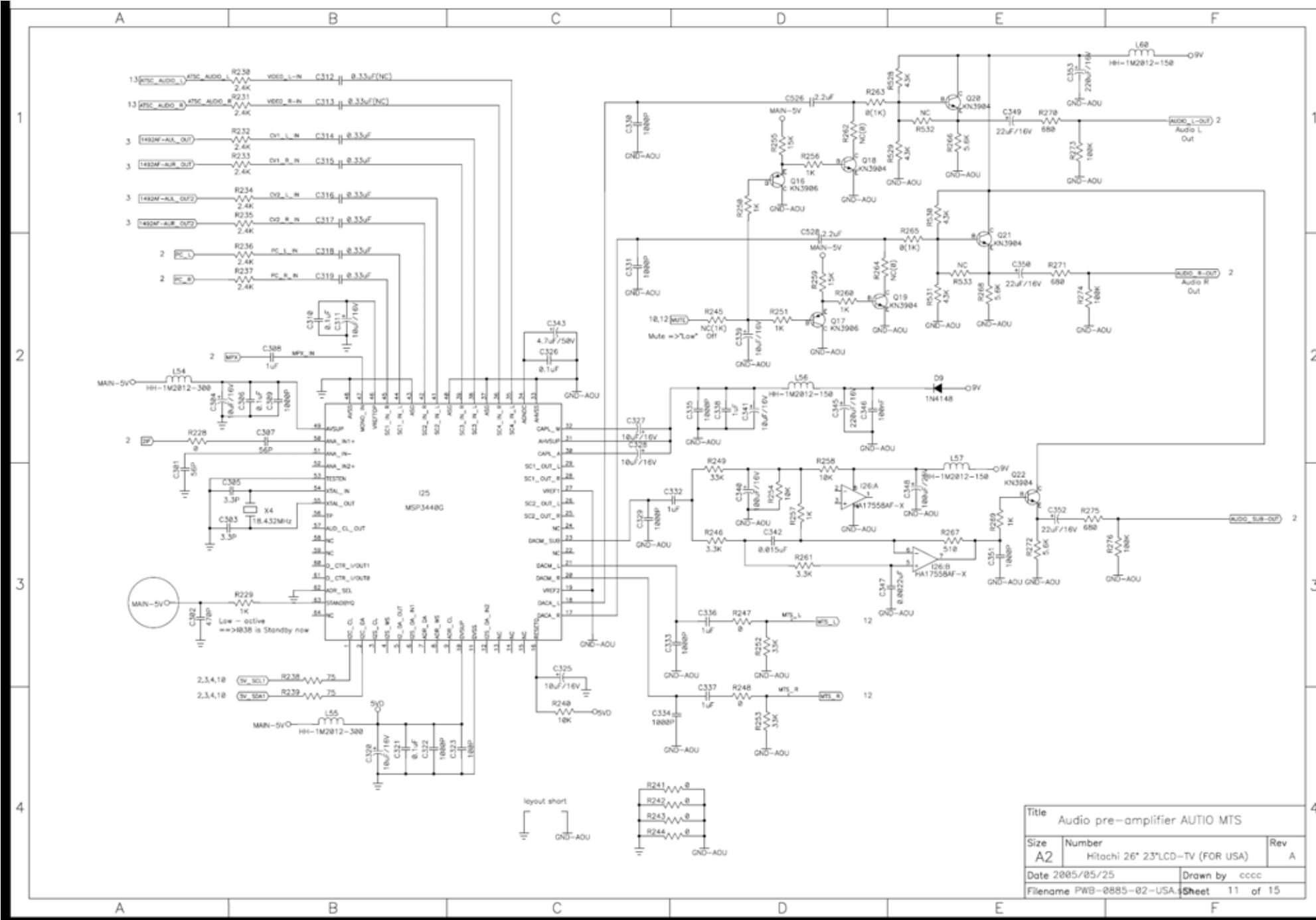




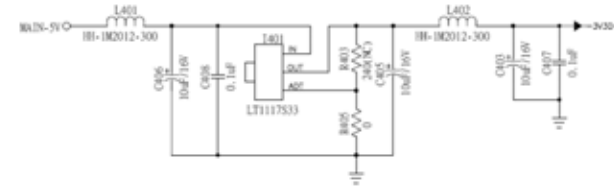








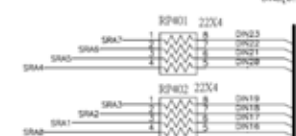
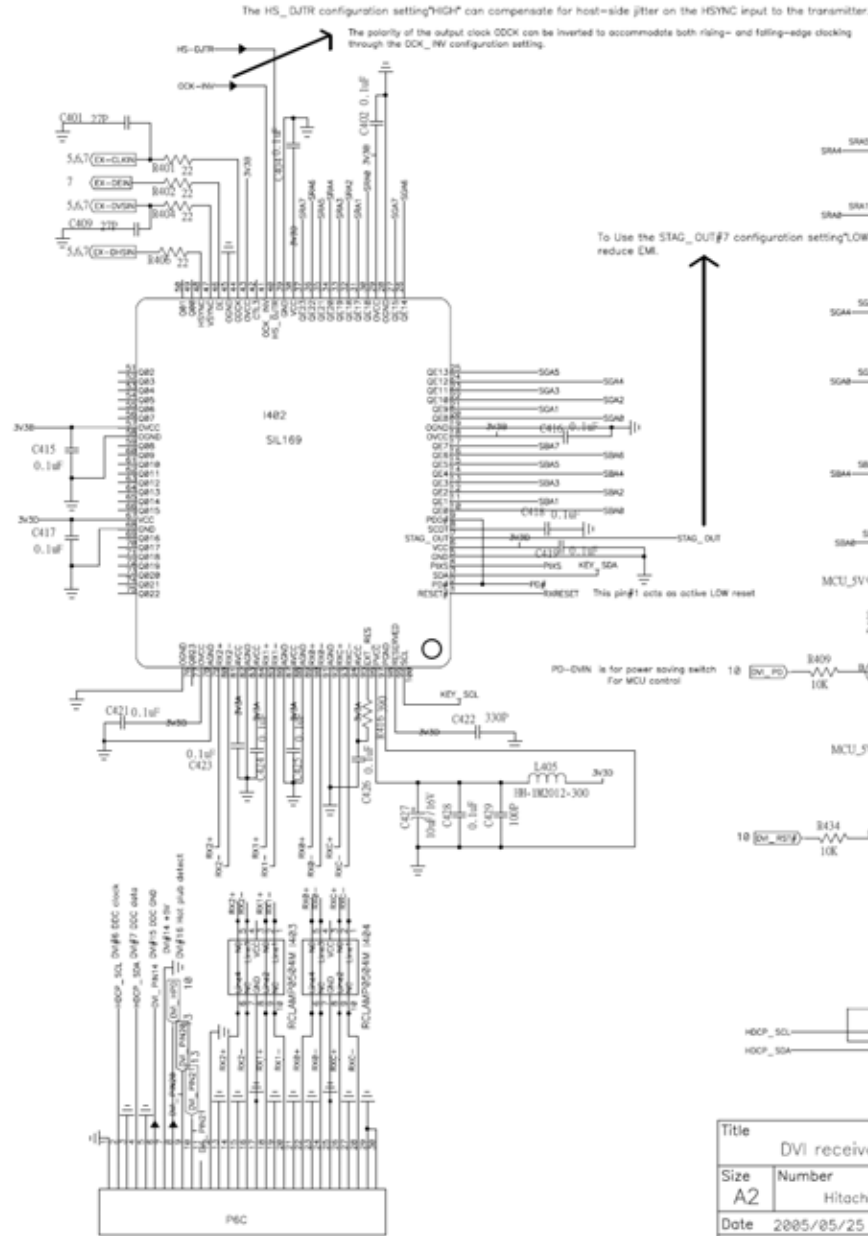
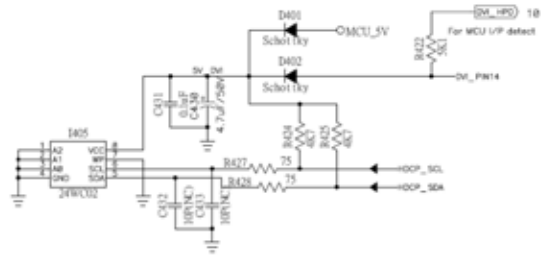
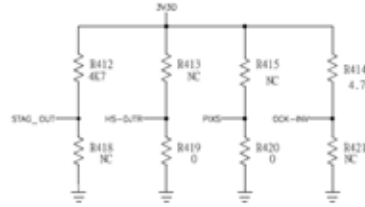
SIL169 DVI with HDCP



VCC 6,38,67
GND 5,39,68
OVCC 18,29,43,57,78
OGND 19,28,45,58,76
AVCC 82,84,88,95
AGND 9,83,87,89,92
PVCC 97
PGND 98

PowerDigital Core
Ground Digital Core
Power Output
Ground Output
Power Analog
Ground Analog
Power PLL Analog
Ground PLL Analog

VCC. Connect to 3.3V supply.
GND. Connect to 3.3V supply.
VCC. Connect to 3.3V supply.
GND. Connect to 3.3V supply.
VCC. Connect to 3.3V supply.
GND. Connect to 3.3V supply.

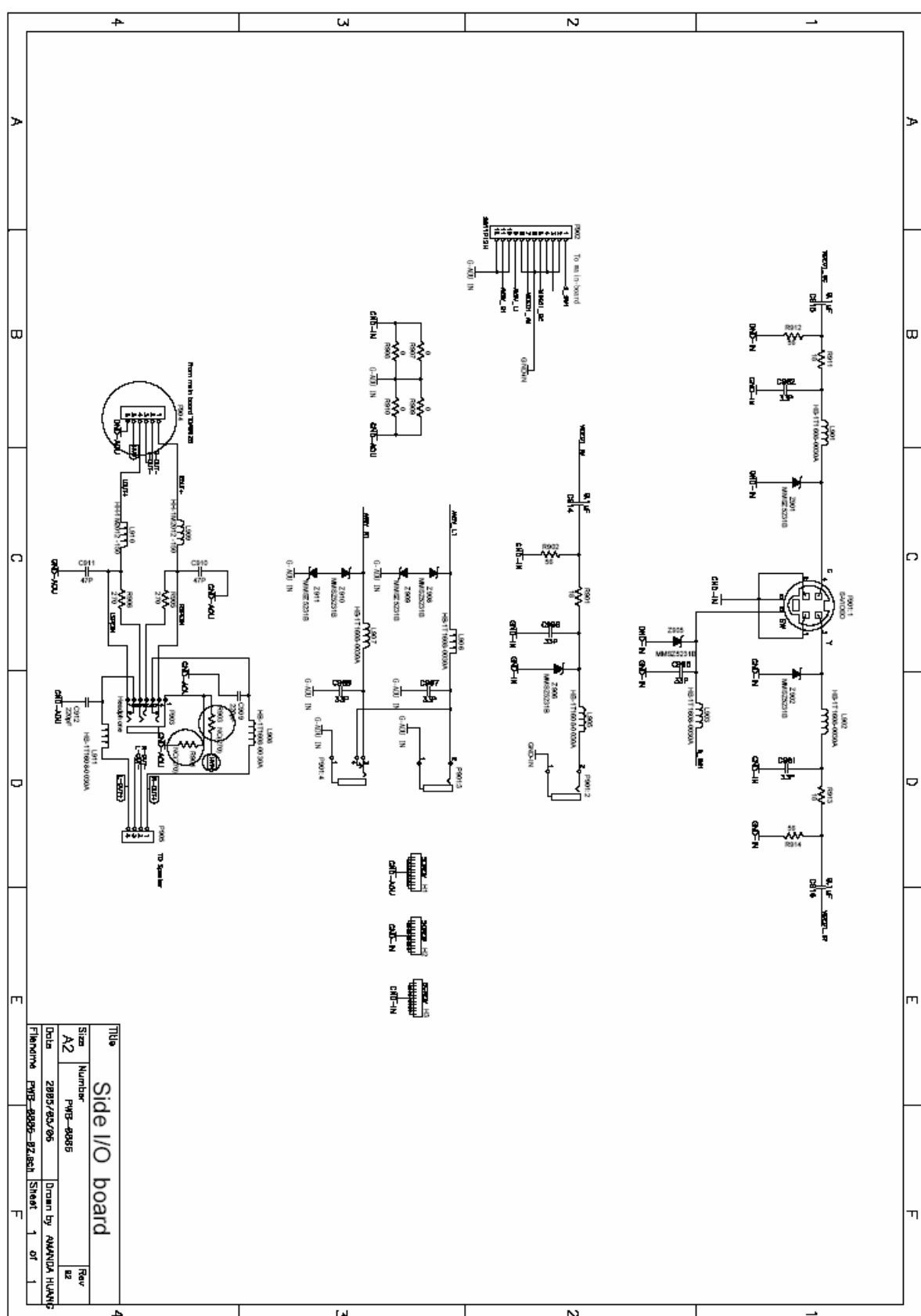


To Use the STAG_OUT[7] configuration setting "LOW" can be staggered in time to reduce EMI.

PD-DWN is for power saving switch
For MCU control

Title		
DVI receiver Sil169 with HDCP(NC)		
Size	Number	Rev
A2	Hitachi 26" 23"LCD-TV (FOR USA)	A
Date	2005/05/25	Drawn by cccc
Filename PWB-0885-02-USA(Sil169).sch 14 of 15		

PWB-0886 Side board

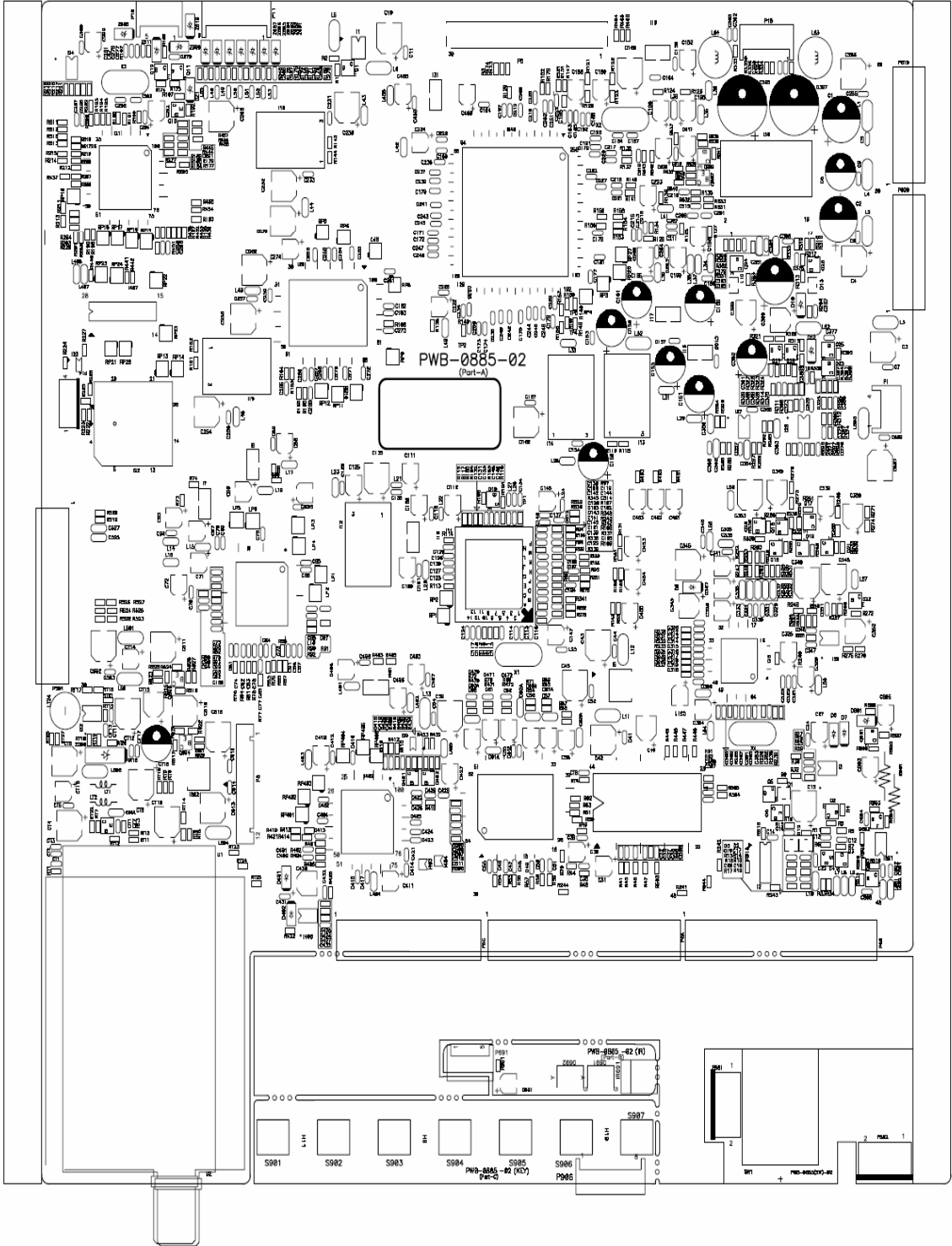


45

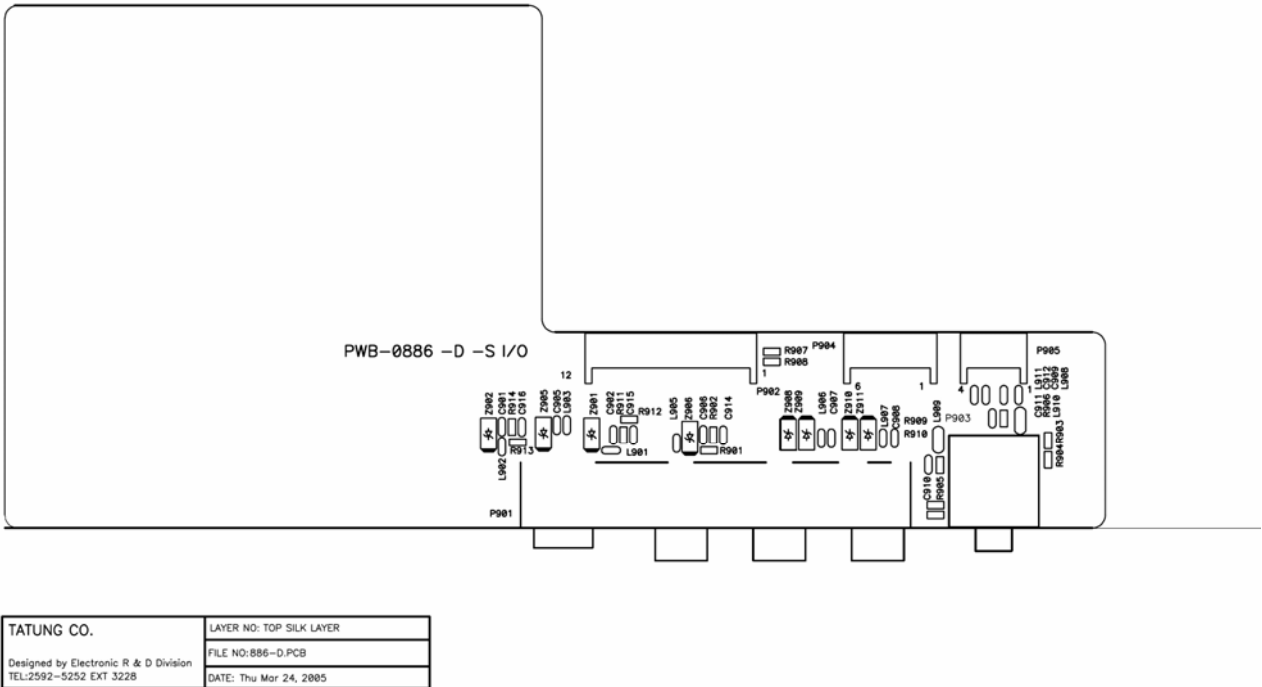
11. Printed Wiring Board Diagram

- Main Board-Top side(PWB-0885)

TATUNG CO.	LAYER NO. TOP SILK LAYER
Designed by Electronic R & D Division	FILE NO. PWB-0885-02.pcb
TEL2292-3352	DATE:Wed Jun 15, 2005



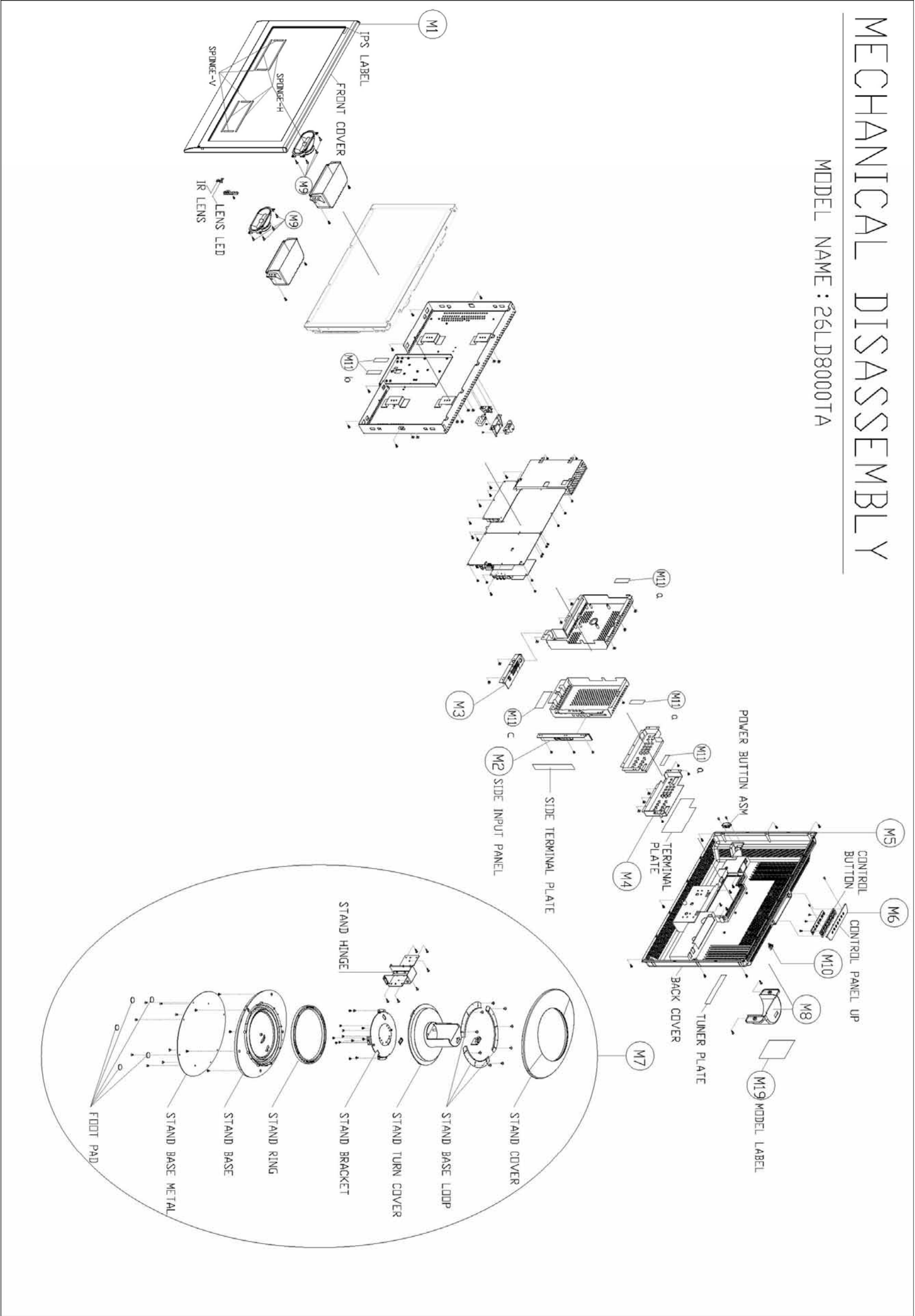
I/O Board1-Top Side(PWB-0886)





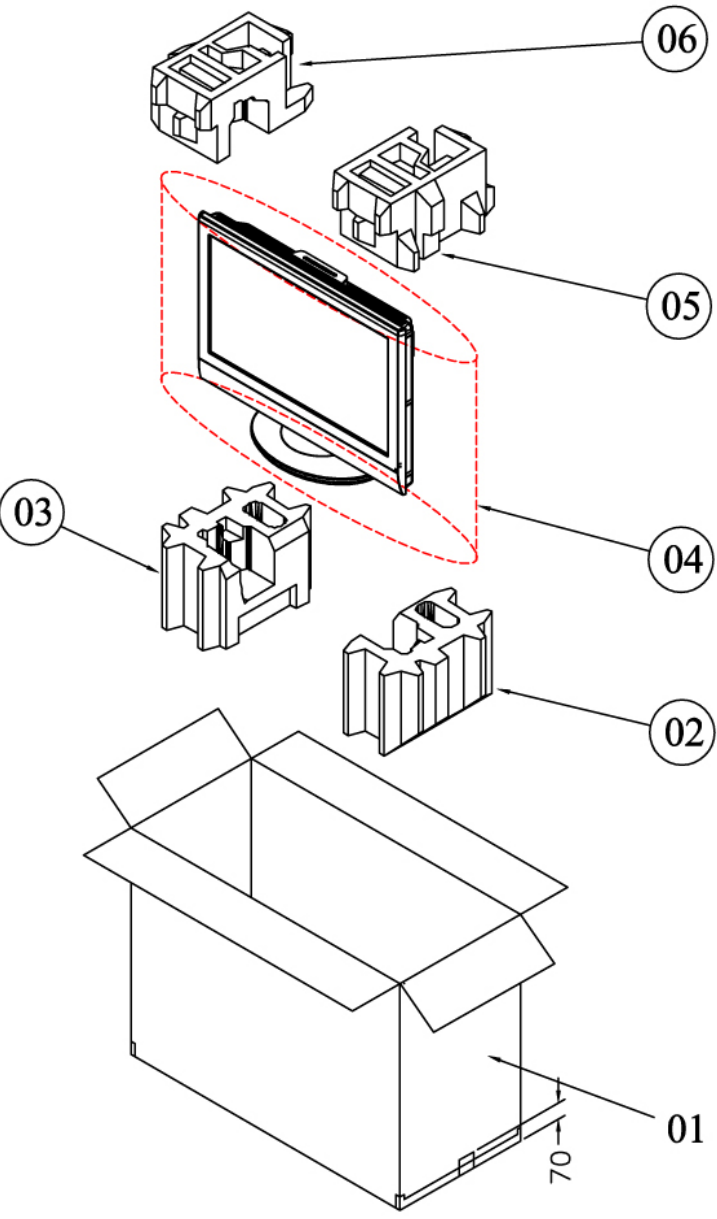
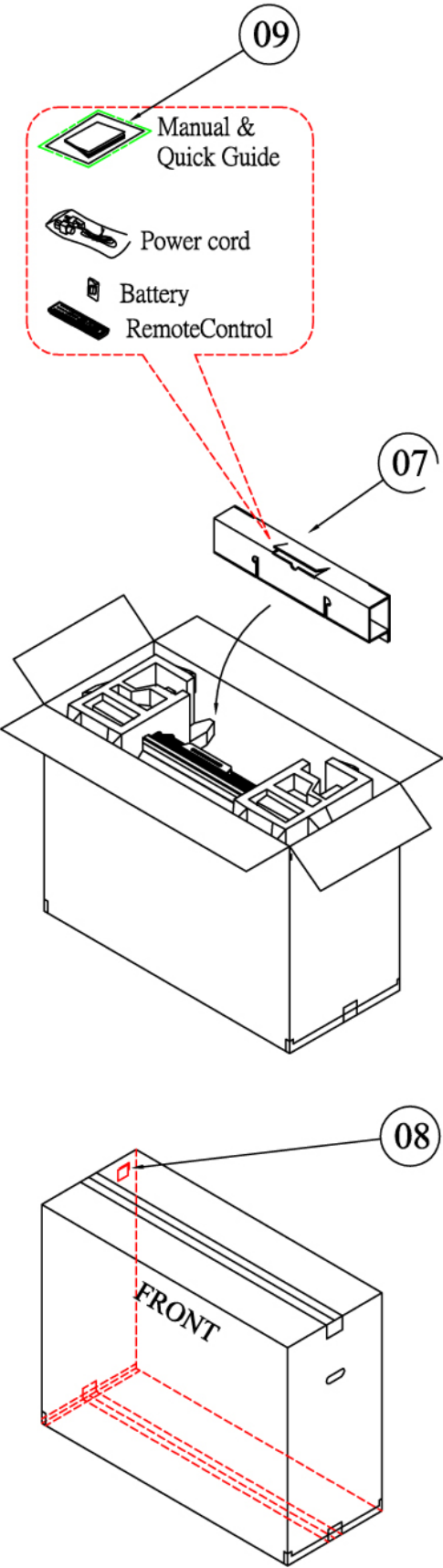
12. Disassembly Diagram

➤ Mechanical



➤ Packing explode Diagram

Model	26HDL52 V26ALAH-U15			
item	Part No.	Parts Name	Q'ty	Remarks
01	9513580156	RS Carton	1Pc	
02	9523580256	EPS Bottom(BR)	1Pc	
03		EPS Bottom(BL)	1Pc	
04	9533319256	EPE Bag	1Pc	
05	9523580156	EPS Top(TR)	1Pc	
06		EPS Top(TL)	1Pc	
07	9513584256	Accessory Box	1Pc	
08	5030409339	Shipping Label	1Pc	
09	9533251157	Clip PE Bag	1Pc	240x340



13. Replacement parts list:

NO.	DESCRIPTION	PART NO.	HITACHI PART NO	Q'TY.
Mechanical part list (26HDL52)				
M1	FRONT COVER ASSEMBLY	5095670828		1
a	FRONT COVER(US)	E641104701		1
b	LENS LED	E640333200		1
c	IR LENS	E640333300		1
d	SPONGE-H	E642026412		4
e	SPONGE-V	E642026413		4
f	IPS LABEL	E642442200		1
M2	SIDE INPUT PANEL ASSEMBLY	5095670831		1
	SIDE INPUT PANEL	E642681500		1
	SIDE INPUT PLATE	E642441800		1
M3	TUNER PANEL	E642323901		1
M4	TERMINAL PANEL ASSEMBLY	5095670832		1
	TERMINAL PANEL	E642324200		1
	TERMINAL PLATE	E642442000		1
M5	BACK COVER ASSEMBLY	5095670829		1
a	BACK COVER	E641104810		1
b	POWER BUTTON ASM	E642852501		1
c	TUNER PLATE	E642442100		1
d	Lead Disposal Label	E030539003		1
e	Warning Label	E030539004		1
M6	CONTROL BUTTON ASSEMBLY	5095670830		1
a	CONTROL PANEL UP(US)	E642323201		1
b	CONTROL BUTTON	E642852301		1
M7	STAND ASSEMBLY	5095854670		1
a	STAND TURN COVER(US)	E641418201		1
b	STAND COVER(US)	E641418301		1
c	STAND BASE	E641418400		1
d	STAND RING	E641419600		1
e	STAND BRACKET	E640409900		1
f	FOOT PAD	E642030200		6
g	STAND HINGE	E648746800		1
h	STAND BASE METAL	E640409800		1
i	STAND BASE LOOP	E648743200		3
M8	STAND HINGE COVER(US)	E641418501		1
M9	PRWP-M3X14	5640228400		8
M10	CABLE CLAMP	E642682000		1
M11	TAPE OF AL FOIL	---	---	---

a	TAPE OF AL FOIL	E648006506		11
b	TAPE OF AL FOIL	E648006507		3
c	TAPE OF AL FOIL	E648006520		1
M12	RS CARTON	I513580156		1
M13	EPS Bottom(BR)	I523580256		1
M14	EPS Bottom(BL)			1
M15	EPE Bag	I533319256		1
M16	EPS Top(TR)	I523580156		1
M17	EPS Top(TL)			1
M18	Clip PE Bag	I533251157		1
M19	MODEL LABEL	E030538201		1

Electrical part list (26HDL52)

NO.	DESCRIPTION	PART NO.	HITACHI PART NO.	QT'Y
PB01	POWER MODULE + CASE FSP	6693006617	—	1
DTV1	ASS'Y PCB (ZAT-520MB ZINWELL)	5053911078	—	1
	ASSEMBLY,PCB-SIDE I/O (PWB-0886)	5097650502	—	1
	ASSEMBLY,PCB-REAR I/O (PWB-0887)	5097650601	—	1
	ASSEMBLY,PCB-MAIN (PWB-0885-A)	5098801012	—	1
	ASSEMBLY,PCB-LED/IR (PWB-0885-B)	5098801013	—	1
	ASSEMBLY,PCB-AC SWITCH (PWB-0885-D)	5098801015	—	1
	ASSEMBLY,PCB-KEY PAD (PWB-0885-C)	5098801016	—	1
P008A	Wire Ass'y W12/12P Conn.	E057412007	—	1
P010A	Wire Ass'y W5/5P Conn.	E057405010	—	1
P011A	Wire Ass'y W8/8P Conn.	E057408004	—	1
P015A	Wire Ass'y W6/6P Conn.	E057406003	—	1
P905A	Wire Ass'y W4/2P Conn.	E057404012	—	1
SP01A	Wire Ass'y W2P Conn.	E057402010	—	1
SW01A	Wire Ass'y Inlet W3P Conn.	E057403012	—	1
V901A	Wire Ass'y W30/30P Conn.	E057430010	—	1
V901B	Wire Ass'y W12/14/12P Conn.	E057414004	—	1
SW01B	QUICK TIE,PVC	E071000001	—	1
V901	26" TFT Panel Module LPL (LC260WX2-SL01)	E051253001	—	1
SP01	Speaker Foster (SPK-E001,420967 4 ohm 10W)	E055100001	—	1
SP02	Speaker Foster (SPK-E001,420967 4 ohm 10W)	E055100001	—	1
2B01	MODEL LABEL (TMX)	E030538301	—	1
2B01	MODEL LABEL (TCN)	E030538201	—	1
BT01	Battery Alkaline (LR03(K)E 2P 1.5V)	E050100001	—	2
P101	Wire Ass'y VGA Signal Cable	E057315500	—	1

P102	Wire Ass'y RCA Cable	E057303500	—	1
P103	Wire Ass'y S-Video Cable	E057304500	—	1
P807	Power Cord UL I-Sheng	E056705900	—	1
RCU01	REMOTE CONTROLLER FORWARD	E052731081	—	1
Y001	USER'S MANUAL	E030037001	—	1
Y004	QUICK SETUP GUIDE	E030037003		1
Y005	WARRANTY CARD(FOR CANADA)	E030230011		1
Y006	WARRANTY CARD(FOR USA)	E030230014		1